2021

ANNUAL SURVEY OF WHOLESALE CUSTOMERS: SUMMARY OF RESULTS

Consumption Data for 2020 Rates Data for 2021





Final October 2021

RESULTS OF THE 2021 SEATTLE SURVEY OF WHOLESALE CUSTOMERS

Each year, Seattle Public Utilities (SPU) asks its wholesale customers to provide information on their current water demand (both retail and wholesale), sources of supply (in addition to SPU), and their water rates. A complete set of this data by wholesale customer and by year is of critical importance in SPU's 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 2021 wholesale customer survey and is the 28th year the report has appeared in this format. *SPU 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. Copies of current and past reports (back to 2005) can be downloaded from SPU's website.

Overview

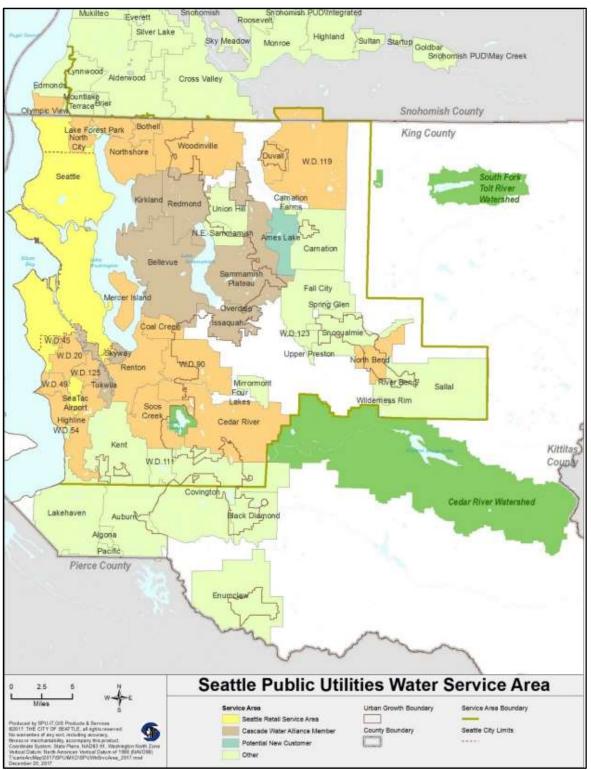
Approximately half the water produced and treated by SPU is sold directly to customers in Seattle's retail service area. The remainder is sold wholesale to the Cascade Water Alliance and 17 neighboring cities and water districts. These wholesale customers are listed below.

| <u>Cities</u> | Water Districts | <u>Cascade Water Alliance</u> |
|-----------------------------------|--------------------------------------|-----------------------------------|
| · Bothell | ·Cedar River Water & Sewer District | ·City of Bellevue |
| · Duvall | ·Coal Creek Utility District | •City of Issaquah |
| Mercer Island | ·Highline Water District | ·City of Kirkland |
| · Renton | ·Northshore Utility District | ·City of Redmond |
| | ·North City Water District | ·City of Tukwila |
| | ·Olympic View Water & Sewer District | ·Sammamish Plateau W & S District |
| | ·Soos Creek Water & Sewer District | ·Skyway Water & Sewer District |
| | ·Woodinville Water District | |
| | ·Water District No. 20* | |
| | ·Water District No. 49 | |
| | ·Water District No. 90 | |
| | ·Water District No. 119 | |
| | ·Water District No. 125 | |

Wholesale Customers of Seattle Public Utilities

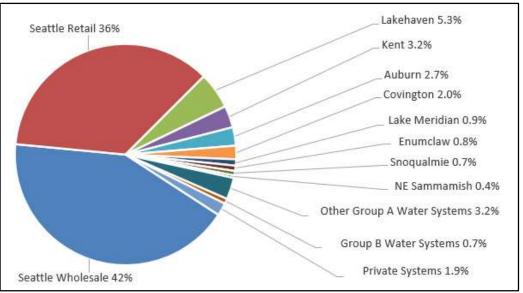
*Effective February 2019, Water District 45 was assumed by Water District 20 and no longer exists; data for Water District 45 prior to the assumption date has been included in data for Water District 20.

Note that the City of North Bend is not included in the survey though it has contracted with SPU to receive untreated mitigation water from the Cedar River watershed.



Water Utilities in King County

While there are approximately 1,950 public water systems in King County and an estimated 14,000 private systems, the 32 largest water utilities serve about 94% of the county's population. Seattle and its wholesale customers alone provide water to almost 80% of the population of King County, as well as approximately 13,000 people in southwest Snohomish County.

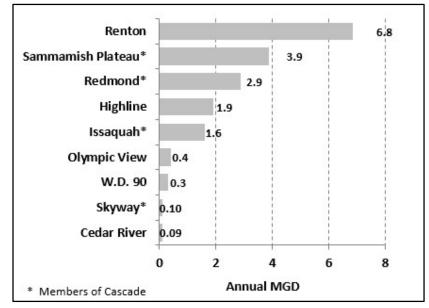


Percent of Population Served by Water Providers in King County

Based on WA Department of Health data; https://fortress.wa.gov/doh/eh/portal/odw/si/DownloadsReports.aspx

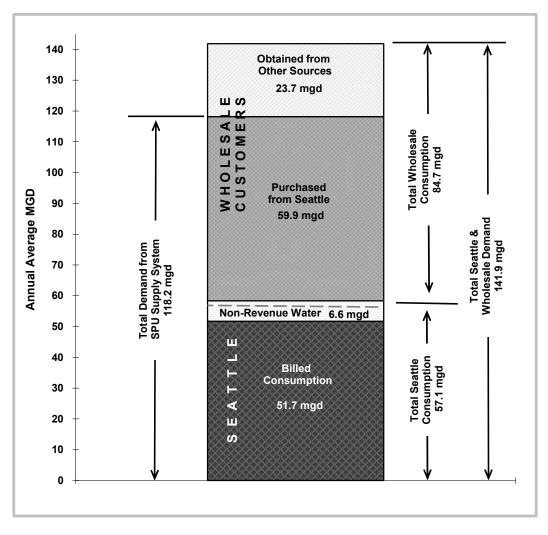
Supply: SPU has two surface water reservoirs on the Cedar River and South Fork Tolt River and two wellfields providing groundwater. Typically, the Cedar River system provides 60 to 70 percent of total supply, and the South Fork Tolt system delivers the remaining 30 to 40 percent. Seattle's two well fields are available to provide peak season and emergency water supply. Total annual average firm yield from the current system is estimated at 172 million gallons per day (mgd).

A number of Seattle's wholesale customers have their own sources of supply, which reduces their demand from the SPU supply system. As shown in the figure below, wholesale customers obtained a total of about 18 mgd from their own sources of supply.



Water Obtained from Own Sources of Supply: 2020

Demand: Seattle and wholesale water demand totaled 141.9 mgd in 2020, up by 0.6 mgd from 2019. Of the 141.9 mgd total, 118.2 mgd came from the SPU supply system and 23.7 mgd was obtained from other sources. Various components of Seattle and wholesale demand are shown in the chart below¹. Seattle demand was 57.1 mgd including 6.6 mgd of non-revenue water. Total wholesale demand of 84.7 mgd consisted of 61.1 mgd from Seattle (59.9 mgd purchased and 1.2 mgd transmission losses) and 23.7 mgd obtained from other sources. Included in wholesale demand, but not shown separately on the chart, is about 6.0 mgd of non-revenue water in their distribution systems.



Components of Seattle and Wholesale Water Demand in MGD: 2020

The graph below illustrates how Seattle system water consumption has changed over time.

While population has risen steadily since 1975, total water demand leveled off during the 1980s at about 170 mgd, before dropping off sharply due to the 1992 drought. During the rest of the 1990s, the combined effects of rising water rates, the 1993 plumbing code, conservation programs, and improved system operations kept total consumption at or just under 150 mgd –

¹ Components may not add to total due to rounding.

well below pre-drought levels. In the first decade of the 2000s, increasingly efficient appliances and fixtures and the impact of Seattle's regional water conservation program further extended the downward trend. By 2010, the amount of water provided by the SPU supply system bottomed out at about 118 mgd. In the next five years, continued conservation investment through the regional water conservation program and improvements in appliance/fixture efficiencies have offset the recent spurt in population growth, resulting in a leveling off of water demand.

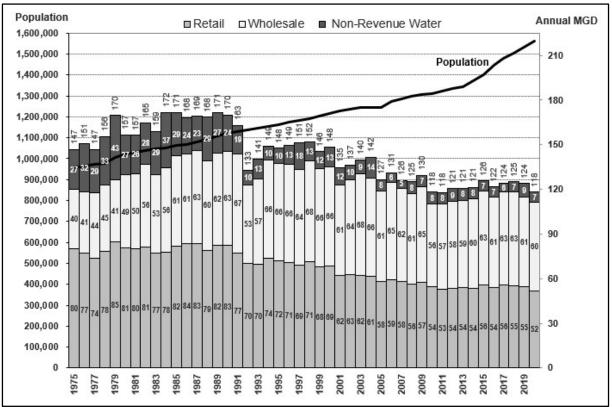
There has been a slight uptick in water demand over the past several years that is due largely to the weather and, specifically, a spate of hot, dry summers. The summer of 2021 was warmer and drier than average. In June 2021, Seattle experienced a record-breaking heat wave with three consecutive days of temperatures exceeding 100 degrees. Rainfall totals were below average in 2021 as well. The majority of Washington State was placed under drought emergency, however it excluded the Seattle regional system due to a robust winter snowpack that provided sufficient water supply for Seattle regional water needs.

Another way to confirm the current flat demand trend is to focus on winter base consumption which eliminates summer variability. While base consumption dropped 40 mgd over the last $2\frac{1}{2}$ decades, it appears to have bottomed out at approximately 100 mgd where it's been for the past several years.

In percentage terms, total Seattle system water consumption has declined 31% since 1990 while population has *increased* 39%. As a result, total consumption *per capita* is 50% less than it was in 1990. Wholesale demand from the Seattle water system grew by two thirds from 40 mgd in 1975 to 67 mgd in 1991. Following the 1992 drought though, wholesale demand leveled off (averaging 66 mgd) for the next decade and a half before dropping to around 60 mgd the last ten years. Seattle retail demand was essentially flat between 1975 and 1991 (averaging 80 mgd) but trended steadily downward before leveling off at about 55 mgd after 2010. Finally, non-revenue water was cut by more than half due to actions taken by Seattle just before and during the 1992 drought.² Seattle's now-completed program to cover all its in-city reservoirs further reduced non-revenue water to an average of about 7 mgd (6%).

² These actions included reducing in-city reservoir overflows, eliminating regular flushing of Green Lake, relining leaky reservoirs, changing reservoir washing practices, and rehabilitating and replacing other reservoirs.

Population and Components of Annual Water Demand Seattle Regional System 1975-2020



* Population has been adjusted downwards to reflect that some wholesale customers have other sources of supply in addition to what they purchase from SPU.

Water Rates

Residential and commercial rates in effect during 2021 for each wholesale customer and Seattle are summarized in Tables 1.1 and 1.2. While a variety of rate levels and structures are evident, the individual rate structures do not change frequently. All wholesale customers levy a commodity charge and a fixed monthly base service charge (BSC) or meter charge which, in four cases, also includes a minimum level of consumption of 1 to 2.5 hundred cubic feet (ccf) per month. There are three basic commodity rate structures and one hybrid: uniform rates, seasonal rates, and inclined block rates, plus combination of seasonal rates with inclined blocks. Fixed monthly charges on a ³/₄" meter, the usual size for residential meters, average \$22.76 per month with a range of \$14.91 per month to \$45.00 per month. The range of fixed monthly charges on 2" meters, typical of commercial accounts, is higher: \$28.67 per month to \$276.27 per month.

Utility Taxes: All water utilities pay a state utility tax of 5.029% applied to total revenue from providing retail water service. Almost half the wholesale customers plus Seattle are assessed additional taxes and fees by their local municipal government(s). The average local tax rate for all subject wholesale customers is 8.5% of total retail revenue. Seattle has the highest total tax rate with 20.6% of its retail revenue going to state and city taxes. Note that some wholesale customers do not include taxes and fees in their published water rates and instead itemize them separately on their customers' bills. In order to make rates and bills

comparable between utilities, those taxes and fees have been added back into the rates as shown in Tables 1.1 and 1.2 and into the bill calculations.

Residential Rates: For more than 10 years, neither Seattle nor any of its *current* wholesale customers have had a uniform rate structure, i.e., a single rate per ccf for all volumes and times of the year. Only one wholesale customer (Tukwila) has straight seasonal rates: a single rate in the winter and a single higher rate in the summer season. Sixteen wholesale customers have simple inclined block rates with from two to five blocks. The size of the blocks is indicated in the "Block Thresholds" column of the tables. For example, Water District 49 has three blocks: the first from 0 to 5 ccf per month, the second from 6 to 8 ccf per month and the last for 9 or more ccf per month. There is considerable variation in the number and size of the blocks and in the rates themselves. Finally, eight wholesale customers and Seattle use various combinations of seasonal and block rates. Olympic View, Woodinville, and Water Districts 90 and 119 have block structures that shift to higher rates in the summer. So does Soos Creek, except there is no higher summer rate in the first two blocks. Seattle and Highline have single winter rates with blocks only in the summer.

The diversity of residential rate structures results in very different price signals to customers during the peak season. Residential customers of wholesale utilities face marginal summer rates ranging from \$3.98 to \$22.57 per ccf. The average summer end-block rate (including Seattle) is \$8.19 per ccf. Three wholesale customers (Bellevue, Issaquah and Mercer Island) plus Seattle have end-block rates exceeding \$10 per ccf. Issaquah has the highest summer end-block rate: \$22.57 per ccf for consumption exceeding 25 ccf per month.

Commercial Rates: Six wholesale customers apply the same rates and rate structures to both their commercial and residential customers. Tukwila maintains the same seasonal structure but has different rates for commercial and residential customers. Olympic View keeps the same rates but changes the block sizes. The remaining sixteen plus Seattle change rates *and* structure, usually shifting from inclined block and hybrid structures to uniform or seasonal rates, but occasionally just reducing the number of blocks. The highest rate is \$10.54 per ccf and the average summer end block rate (including Seattle and uniform and seasonal rates) is \$5.91 per ccf.

Customer Bills: Figures 1.1 through 1.4 and Tables 1.3 and 1.4 compare monthly residential bills across wholesale customers. Three consumption levels, defined below, are used throughout:

| Level of Household Consumption | Winter | Summer | Average Annual |
|-----------------------------------|------------|-----------|-------------------|
| Low | 3.5 ccf/mo | 5 ccf/mo | 4 ccf/mo |
| Medium | 6 ccf/mo | 9 ccf/mo | 7 ccf/mo |
| High | 12 ccf/mo | 21 ccf/mo | 15 ccf/mo |

Monthly Consumption Levels Used in Calculating Bills

Note that as of the 2016 survey, these consumption levels have been lowered from what had been used in all previous survey reports. Medium consumption had been defined as 8 ccf/mo in the winter and 12/ccf/mo or 9.33 ccf/mo on an average annual basis. This reflected typical residential consumption in the mid-1990s for wholesale customers. However, average

consumption has declined significantly since then and appears to have leveled off at about 7 ccf/mo (see Table 2-4). The new low, medium, and high consumption levels used for bill comparisons are more representative of current consumption patterns.

Figures 1.1, 1.2 and 1.3 graphically display monthly residential bills by wholesale customer at low, medium, and high levels of consumption at 2021 rates. The figures also rank wholesale customers (including Seattle) by the size of their bills revealing two interesting facts. One is that there are big differences in what households pay for water among different utilities. Monthly bills from utilities with the highest rates are more than two times as large as those from utilities with the lowest rates. Average monthly bills range from \$23.21 to \$59.57 at the low level of consumption and \$63.87 to \$136.41 at the high level of consumption.

A utility's average residential water bill is a function of both its rates *and* its average residential consumption. A problem with most comparisons of water bills across utilities (including the comparisons in Figures 1.1 through 1.3) is that the comparisons use a single level of consumption to calculate the bills. But if the chosen level of consumption is typical for one utility, it may not be for another. Consider two utilities having exactly the same rates. One could have higher average bills than the other because its average consumption is higher. To correctly compare average bills across utilities, each utility's bill should be calculated at its average level of consumption. This has been done in Figure 1.4. Average monthly residential consumption in 2019 ranged from 5.3 ccf per month in Seattle and Skyway to 8.5 ccf per month in Sammamish Plateau. In Figure 1.4, Redmond has the lowest average residential bill while Water District 119 tops the list. Water District 119's volume rates are below the average but it has the highest residential meter charge.

There are many possible explanations for the wide variation in residential rates and bills. These include utilities having:

- different financial policies,
- different levels of taxes and fees,
- different levels of investment in new and replacement infrastructure,
- different proportions of rate revenue, non-rate revenue, and debt,
- different proportions of residential and commercial customers,
- different cost allocations between customer classes,
- different customer densities,
- and different rates of customer and service area growth.

The other phenomenon revealed by the graphs is how much wholesale customer rankings can change at different levels of consumption, i.e., the wholesale customer with the highest bill at one level of consumption may be far from the highest at other levels of consumption. For example, Issaquah has the highest bill at high consumption but drops to twelfth and nineteenth highest at medium and low consumption, respectively. Sammamish Plateau is a good example of the opposite pattern, moving up from the fifth *lowest* bill at high consumption to fifth *highest* bills at low consumption. Finally, others, such as Coal Creek, Water District 49 and Water District 90, are in the middle for all levels of consumption. (Table 1.4 summarizes the different rankings from Figures 1.1 through 1.3.)

There are two factors that explain the shifts in relative rankings of wholesale customer bills at different levels of consumption. One is different rate structures. For example, a steeply

inclined block structure tends to favor low volume users while a flatter rate structure favors high volume users. The second factor is the relative magnitudes of the fixed and variable components of the rates. Higher meter charges relative to volume charges result in higher bills for low volume users and proportionally lower bills for high volume users. The combined impact of these factors can be seen in Table 1.4. In general, wholesale customers with relatively high meter charges and relatively low volume charges move down in the rankings (their bills get smaller compared to other wholesale customers) as consumption increases. Wholesale customers with lower meter charges and higher or steeply inclining volume charges tend to move in the opposite direction, placing higher in the rankings as consumption increases. In many cases, the "meter charge effect" offsets the "rate structure effect" so that the wholesale customer maintains its ranking across all consumption levels.

Table 1.3 displays monthly bills at the medium level of consumption (graphed in Figure 1.2) and the difference between winter and summer bills by wholesale customer. Note that the summer/winter differential is not the differential in *rates* but in *bills*. Most wholesale customers 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 wholesale customers is actually *less* in the summer than in the winter. This seemingly contradictory result is due to the impact of the fixed meter charge being spread over a greater number of ccf in the summer. This effect diminishes as the level of consumption rises and the meter charge represents a smaller and smaller proportion of the total bill. Issaquah, Tukwila, and Soos Creek have differentials of more than 50%, a sign that the *average* rate charged per ccf in the summer is greater than in the winter. This is because they tend to have relatively low monthly meter charges and/or very steeply inclined block structures and/or seasonal rates with significant increment between peak and off-peak rates.

Consumption Patterns

Annual Consumption: Figures 2.1 and 2.2 display annual water purchases from SPU and annual retail water sales by wholesale customer for 2020. Tables 2.1 and 2.2 provide a historical perspective by displaying 15 years of data on annual retail consumption by wholesale customer and wholesale purchases from Seattle. Note that annual purchases from SPU are often very different than wholesale customers' retail demands. Purchases from SPU are less than the actual demand of wholesale customers who have their own sources of supply or who buy from others. And while most Cascade members still obtain water directly from SPU's transmission system, they no longer purchase it directly from SPU. Instead, the Cascade Water Alliance pays SPU for what is owed and then bills its members. Some water purchased by Cascade is wheeled to members who may not have direct connections to the Seattle system such as Issaquah and Sammamish Plateau (for example, some of the water shown in Figure 2.1 as "purchased" by Bellevue ends up in Redmond, Issaquah, or Sammamish Plateau).

Consumption Trends: Figure 2.3 shows the growth, or in over half the cases, the decline in total retail water consumption for Seattle and each of the wholesale customers over the 25-year period 1995 to 2020. Seven utilities, most in expanding and faster growing areas, have experienced positive water demand growth since 1995. The rest are using less water than they did 25 years ago. Total 2020 water demand for all wholesale customers is less than it was in 1995. The largest decreases have been in Skyway, Seattle, North City, and Water District 49, where water demand has dropped by 26% to 29% (1.1% - 1.4% a year). This

indicates that for Seattle and over half of its wholesale customers, the combined effect of conservation programs, fixture and appliance codes, and rising water rates has more than offset the impact of growth in the customer base. (Note that the apparent even larger decline for Coal Creek (42%) is due to the annexation of much of its service territory by Bellevue in 2003. The decline in demand for Coal Creek and Bellevue combined is just 11.6% over the last two decades.)

Non-Revenue Water: Figure 2.4 ranks wholesale customers by percent of non-revenue water in 2020, i.e., the percent of their total water purchases and production that is not sold. Percent non-revenue water for 2018, and 2019 is also shown. Table 2.3 shows annual distribution system percent non-revenue water by wholesale customer for the last 15 years (2006 through 2020 and the average for each wholesale customer over those years. Percent non-revenue water is calculated as follows:

 $(PS + PO + OS - RS - WS) \div (PS + PO + OS)$

where

PS = Water Purchased from Seattle PO = Water Purchased from Others OS = Water obtained from Own Supply RS = Water Sold Retail WS = Water Sold Wholesale

There are many causes of non-revenue water. Some are necessary and/or beneficial such as water main flushing, reservoir cleaning and water taken from hydrants for fire-fighting, street cleaning and some construction projects. Others, however, are undesirable and represent wasted water or lost revenues. These include leaks from pipelines and reservoirs, inadvertent reservoir overflows, theft and slow customer meters. For a newer water system efficiently operated, the percentage of non-revenue water might be expected to be near 5%. Non-revenue water above 10% should prompt some analysis of what the cause might be, and non-revenue water in excess of 15% is definitely a call to action.³

The average level of non-revenue water for wholesale customers was 7.2% in 2020⁴. Since 2006, average wholesale distribution system non-revenue water has varied from 5.1% to 9.9% averaging 7.6% over the whole period.

Measurement problems contribute to at least some of the year-to-year variation in nonrevenue water evident in Table 2.3 and Figure 2.3. Billing lags and supply meter inaccuracies

³ The state Water Use Efficiency Rule requires water utilities to report their Distribution System Leakage (DSL) to the Department of Health annually, and to take action if the 3-year moving average exceeds 10%. Note that non-revenue water is different than DSL. All water produced or purchased but not sold is considered non-revenue water. DSL starts with non-revenue water but subtracts out all authorized uses of water that can be measured or estimated. These include water used for reservoir cleaning and overflowing, main and hydrant flushing, firefighting, and other hydrant use such as construction and street sweeping. If measured, transmission losses can also be deducted in calculating DSL. A utility's estimate of DSL will be less than its non-revenue water to the extent that authorized uses are taken into account.

⁴ Percent of non-revenue water for Seattle is not included in Figure 2.3 because it is not directly comparable to wholesale non-revenue water. For wholesale customers, non-revenue water is a distribution system concept. Water lost in transmission from Seattle's sources to wholesale meters is not part of the calculation. However, Seattle non-revenue water consists of both distribution and transmission losses to Seattle plus wholesale transmission losses. Comparing Seattle and wholesale non-revenue water would be misleading unless the distribution system component of Seattle non-revenue water could be isolated. Unfortunately, that is not possible with currently available data.

are two problems that make the precise measurement of non-revenue water difficult. Because of differences in the length of billing lags, the measure of annual wholesale water sales generally doesn't span the exact same period as the measure of annual purchases and production. These two measures of water consumption, the difference of which provides our estimate of non-revenue water, may be offset by as much as two months. Fortunately, these months are in the middle of winter when consumption tends to be relatively constant from month to month. The problem would be much worse if the end of the year coincided with the peak season.

Slow *wholesale* meters or missing meter readings have represented a much more serious problem in measuring non-revenue water by reducing the apparent difference between the amount of water entering a wholesale customer's system and the amount of water sold by that wholesale customer. Extremely low levels of non-revenue water (under 3%) suggest that there is probably some kind of metering problem. Negative non-revenue water, i.e., when metering data implies that more water has been sold than was produced and/or purchased, is a sure sign that one or more meters measuring incoming water is slow. In 2020, there were no wholesale customers with negative non-revenue water suggestive of metering issues.

Per Household and Per Account Consumption: Figures 2.5 and 2.6 rank wholesale customers and Seattle on the basis of 2020 single-family consumption per household and total consumption per account. The first measure is often used by wholesale customers in their analysis of current and projected water demand and in their calculation of Equivalent Residential Units (ERUs). The wholesale customer with the highest single-family consumption per household is Sammamish Plateau at 210 gallons per day (gpd), followed by Woodinville at 191 gpd. The weighted wholesale average for 2020 was 173 gpd. Skyway reported the lowest consumption per household with 129 gpd. The variance in per household use between wholesale customers is due to more than just different attitudes towards water conservation. Wholesale customers at the top of the list (Sammamish Plateau, Woodinville, etc.) tend to have some or all of the following characteristics associated with higher water use: larger lot sizes, higher household incomes, and higher average persons per household. Utilities (including Seattle) with consumption per household at the low end of the scale tend to have just the opposite characteristics: denser development with smaller lots, lower average household incomes, and fewer persons per household. In addition to annual average consumption per single family household, Figure 2.5 also shows peak (4 month) season consumption per household.

There is much greater variation in total consumption per account across wholesale customers as can be seen in Figure 2.6. The weighted wholesale average is 275 gpd. Total consumption per account in Seattle is 267 gpd, a little less than the wholesale average. This is *not* an indication of the relative efficiency of water use among the different utilities. Rather, higher levels of total consumption per account are closely associated with higher proportions of non-residential and multifamily customers. Wholesale customers at the bottom of the list serve predominantly single-family customers. Utilities at the top of the list with the highest consumption per account – Tukwila, Water District 125, and Bellevue – also have the highest proportions of non-residential and multifamily consumption, (50% or more of the total – Tukwila is 86%). Total consumption per account and percent of consumption that is *not* single family are highly correlated all the way down the line.

Finally, Table 2.4 provides some history on single family consumption per household by wholesale customer for the period 1994-2020. The overall downward trend in average consumption per household for both wholesale customers and Seattle is apparent in Figure 2.7. The average decline since 1994 has been almost 30%. The range, from low to high, of wholesale consumption per household over time is also depicted in the graph. Like Figure 2.3, this graphically illustrates the impact on single family residential water demand of conservation programs, water efficiency codes for new fixtures and appliances, and rising water and sewer rates.

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Table 1.1 A Comparison of 2021 Residential Rates

| | 1 14:11:4 | BSC for | Cassar | | Block Thresholds** in CCF per Month | | | | | | | | | | | |
|----|---------------------------|-----------|-------------------------|-------------------------|---|------------------|------------------|------------------|-------|-------------|------|-------|-----|---------|--------|--------------|
| | Utility | ³∕₄" Mtr | Season | 1 2 | 3 4 5 6 7 8 9 | 10 11 12 | 2 13 14 | 15 16 17 | 18 19 | 20 21 | 22 2 | 23 24 | 25 | | 50 | Thresholds |
| 1 | W.D. 20 | \$24.20 | - | \$2.57 | \$3.30 | | | \$4.20 | | | | | | | | 5/15 |
| 2 | W.D. 49 | \$20.99 | - | \$4.04 | \$4.98 \$6.8 | 4 | | | | | | | | | | 5/8 |
| 3 | W.D. 90 | \$31.25 | Off-Peak Peak | \$0 | \$3.20 \$4.00 \$5.25 | | \$5.00 \$6.00 | | | | | | | | | 7.5/12.5 |
| 4 | W.D. 119* | \$45.00 | Off-Peak Peak | <u>\$2.90</u> \$4.34 | \$3.65 \$4.79 \$5.48 \$7.17 | | | \$5.81 \$8.70 | | | | | | | | 3.5/7/14 |
| 5 | W.D. 125 | \$14.91 | - | \$3.92 | \$4.63 | | | | | | | | | | | 6 |
| 6 | Bellevue ^T | \$29.35 | - | \$4.60 | \$5.85 \$7 | .67 | | | | | | \$10. | 96 | | | 5.5/8.5/22.5 |
| 7 | Bothell [™] | \$18.15 | - | \$3.56 | \$5.24 | \$6.38 | | \$8.60 | | | | | | \$9.83 | | 5/10/15/25 |
| 8 | Cedar River | \$18.89 | - | \$2.88 | \$5.00 | | | \$5.82 | | | | | | \$8.77 | | 5/15/25 |
| 9 | Coal Creek | \$21.96 | - | \$3.62 | \$4.70 | | | \$6.01 | | | | | | | \$8.62 | 5/15/50 |
| 10 | Duvall | \$28.67 | - | \$0 | \$4.27 \$5.49 <mark>\$6.72</mark> \$7.9 | 3 \$9.18 | | | | | | | | | | 4/6/8/10 |
| 11 | Highline ^T | \$16.46 | <u>Off-Peak</u> Peak | \$4.05 \$4.05 | \$4.80 | | | | | | | | | | | 5 |
| | Issaquah ^T | \$16.88 | - | \$2.18 | | | | \$15.71 | | | | | | \$22.57 | | 2/7/15/25 |
| | Kirkland [⊤] | \$24.46 | - | | \$5.86 | | \$7.71 | | | | | | | | | 12 |
| 14 | Mercer Island | \$19.42 | <u>Off-Peak</u> Peak | \$4.61 | \$7.79 | \$9.36 \$9.47 | | \$12.59 | | | | | | | | 5/10/15 |
| 15 | North City ^T | \$32.20 | - | \$2.69 | \$4.23 \$5.78 | | \$7.31 | | | | | | | | | 2/5/12 |
| 16 | Northshore ^T | \$16.43 | - | \$3.75 | \$4.84 | \$5.93 | | | | | | | | | | 5/10 |
| | Olympic View ^T | \$23.22 | <u>Off-Peak</u> Peak | \$2.53 \$2.84 | | | | | | <u>\$3.</u> | | | | | | - 20 |
| 18 | Redmond | \$15.15 | - | \$1.86 | \$3.71 | \$5.57 | | | | _ | .43 | | 111 | | | 4/10/20 |
| 19 | Renton | \$18.31 | - | \$2.64 | \$3.55 | \$4.48 | | | | | | | | | | 5/10 |
| 20 | Sammamish Plateau | \$32.99 | - | \$2.08 | \$2.53 | | \$4.10 | | | | | | | \$8.12 | | 6/12/19 |
| 21 | Skyway | \$20.71 | - | \$4.60 | \$5.83 \$7.34 | | \$9.36 | | | | | | | | | 4/6/12 |
| 22 | Soos Creek | \$15.88 | Off-Peak Peak | \$2.00 | <u>\$4.10</u> \$4.92 | \$5.15 \$6.18 | | \$5.80 \$6.96 | _ | | | | | | | 5/10/15 |
| 23 | Tukwila | \$19.00 | Off-Peak Peak | \$2.86 \$3.98 | | | | | | | | | | | | - |
| 24 | Woodinville | \$26.05 | <u>Off-Peak</u> Peak | | 3 | | \$7.90 \$9.19 | | | | | _ | | | | 12.5 |
| 25 | Seattle | \$18.45 | Off-Peak Peak | | \$6.86 | | | | \$11 | 80 | | | | | | 5/18 |
| | Block Thresholds in C | CCF per N | | 1 2 | | 10 11 12 | 2 13 14 | 15 16 17 | | 20 21 | 22 2 | 23 24 | 25 | | 50 | |

CCF included with Base Service Charge (BSC) at no additional charge Blocks: \$0

2nd Block

4th Block

5th Block

1st Block * All utilities with seasonal rates use a 4 month peak season except Water District 119 (6 month).

** Block thresholds are the number of ccf per month at which the next rate block is attained. For example, W.D. 20 charges \$2.78 per ccf for the first 5 ccf consumed, \$3.30 per ccf for the next 10 ccf per month, and \$4.20 for all consumption above 15 ccf per month.

3rd Block

Taxes and fees not included in the published rates of these utilities (Bellevue, Bothell, Issaquah, Kirkland, North City, Northshore, and Olympic View) have been added to the rates shown in this table.

| Table 1.2 |
|---------------------------------------|
| A Comparison of 2021 Commercial Rates |

| | Utility | BSC for | for Season | | | | | ock Thresho | olds in C | | | | | | Block |
|----|----------------------------------|----------------|------------------|------------------|-------------------|--------------|------------------|-------------|-----------|-------|------|------|-----------|--------|--------------|
| | - | 2" Mtr | Season | 1 2 3 | | | 10 11 12 | 13 14 15 | | 25 | 32 | 40 | 80 | 160 | Thresholds |
| 1 | W.D. 20 | \$121.00 | - | \$2.57 | \$3.30 |) | | | \$4.20 | | | | | | 5/15 |
| 2 | W.D. 49 | \$276.27 | - | \$4.48 | | | | | | | | | | | - |
| 3 | W.D. 90 | \$80.75 | | \$5.00 | | | | | | | | | | | |
| - | | , | Peak | \$6.00 | \$0.05 | 01 70 | | 0.5.0 | | | | | | | |
| 4 | W.D. 119* | \$79.50 | Off-Peak | \$2.90 | \$3.65 | \$4.79 | | \$5.8 | | | | | | | 3.5/7/14 |
| | | | Peak Off-Peak | \$4.34 | \$5.48 | \$7.17 | | \$8.7 | 0 | | | | | | |
| 5 | W.D. 125 | \$52.50 | Peak | \$4.06 \$4.45 | | | | | | | | | | | |
| | _ | | | \$4.45 \$5.82 | | | | | | | | | | | |
| 6 | Bellevue ^T | \$135.03 | Peak | \$7.95 | | | | | | | | | | | |
| | - | | | \$4.01 | * * * * * * * * | | | | | | | | | | |
| 7 | Bothell [⊤] | \$143.01 | Peak | \$6.85 | | | | | | | | | | | - |
| 8 | Cedar River | \$73.93 | - | \$0 \$2.88 | \$5.00 |) | | | \$5.82 | | | | | | 5/15 |
| - | | | Off-Peak | \$4.17 | | | | | | | | | | | |
| 9 | Coal Creek | \$116.81 | Peak | \$5.44 | | | | | | | | | | | - |
| 10 | Duvall | \$28.67 | - | \$0 \$4.27 | 7 \$5.49 \$6 | 6.72 \$7.9 | 93 \$9.18 | | | | | | | | 4/6/8/10 |
| 11 | Highline [™] | \$144.41 | Off-Peak | \$4.05 | | | | | | | | | | | 5 |
| | - | ə144.41 | Peak | \$4.80 | \$4.80 | | | | | | | | | | - |
| 12 | Issaquah ^T | \$150.57 | - | \$4.38 | | | | | | | \$6. | 77 | | | 32 |
| 13 | Kirkland [⊤] | \$80.58 | - | \$5.56 | | | | | | | | | | | - |
| | Mercer Island | ¢455.00 | Off-Peak | \$4.24 | | | | | | | | | | | |
| 14 | Mercer Island | \$155.38 | Peak | \$10.54 | | | | | | | | | | | - |
| 15 | North City ^{S,T} | \$141.00 | - | \$4.70 | | | | | | | | | | | - |
| 16 | Northshore ^T | \$120.55 | - | \$4.03 | | | | | | | | \$4. | 30 \$4. | 57 | 40/80 |
| | | * 00 70 | Off-Peak | \$2.53 | | | | | | | | | | \$3.72 | 400 |
| 17 | Olympic View ^T | \$80.78 | Peak | \$2.84 | | | | | | | | | | \$4.44 | 160 |
| 10 | Redmond | \$98.14 | Off-Peak | \$2.60 | | | | | | | | | | | _ |
| | | | Peak | \$4.45 | | | | | | | | | | | - |
| 19 | Renton | \$109.78 | - | \$3.62 | | | | | | | | | | | - |
| 20 | Sammamish Plateau | \$209.56 | Off-Peak | | | | | | | | | | | | _ |
| | | | Peak | \$2.56 | | | | | | | | | | | |
| 21 | Skyway | \$236.37 | - | \$6.63 | | | | | | | | | | | - |
| 22 | Soos Creek | \$63.06 | Off-Peak | \$2.00 | \$4.10 | | \$5.15 | | \$5.80 | | | | | | 5/10/15 |
| | | | Peak | \$5.20 | \$4.92 | | \$6.18 | | \$6.96 | | | | | | |
| 23 | Tukwila | \$117.00 | Off-Peak Peak | \$5.20 \$7.04 | | | | | | | | | | | |
| | | Prior | Feak | | | | | | | | | | | | Prior Winter |
| 24 | Woodinville | Winter | - | \$4.83 | | | | | | \$5.2 | 29 | | | | Average |
| | | | Off-Peak | \$5.40 | | | | 11111 | _ | | | | | | 7.001490 |
| 25 | Seattle | \$32.50 | Peak | \$6.86 | | | | | | | | | | | - |
| | Block Thresholds in (| CCF per M | | 1 2 3 | 4 5 6 | 7 8 9 | 10 11 12 | 13 14 15 | | 25 | 32 | 40 | 80 | 160 | |
| | | | 1 | | | | | | | -~ [| | | | | |
| | Blocks: | \$0 | CCF includ | led with Base Se | ervice Charge (| (BSC) at no | additional cha | irge | | | | | | | |
| | | | 1st Block | | 2nd Block | | 3rd E | Block | | 4th B | lock | | 5th Block | | |
| * | All utilities with seasonal rate | s use a 4 mor | nth peak sea | son except Water | r District 119 (6 | month). | | - | | | | | | | |

* All utilities with seasonal rates use a 4 month peak season except Water District 119 (6 month). ** Block thresholds are the number of ccf per month at which the next rate block is attained. For example, W.D. 20 charges \$2.78 per ccf for the first 5 ccf consumed, \$3.30 per ccf for the next 10 ccf per month, and \$4.20 per ccf for all consumption in excess of 15 ccf per month.

T Taxes and fees not included in the published rates of these utilities (Bellevue, Bothell, Issaquah, Kirkland, North City, Northshore, and Olympic View) have been added to the rates shown in the table.

Average Monthly Residential Bills at 2021 Rates and LOW Consumption

(3.5 ccf/mo Winter and 5 ccf/mo Summer Consumption)

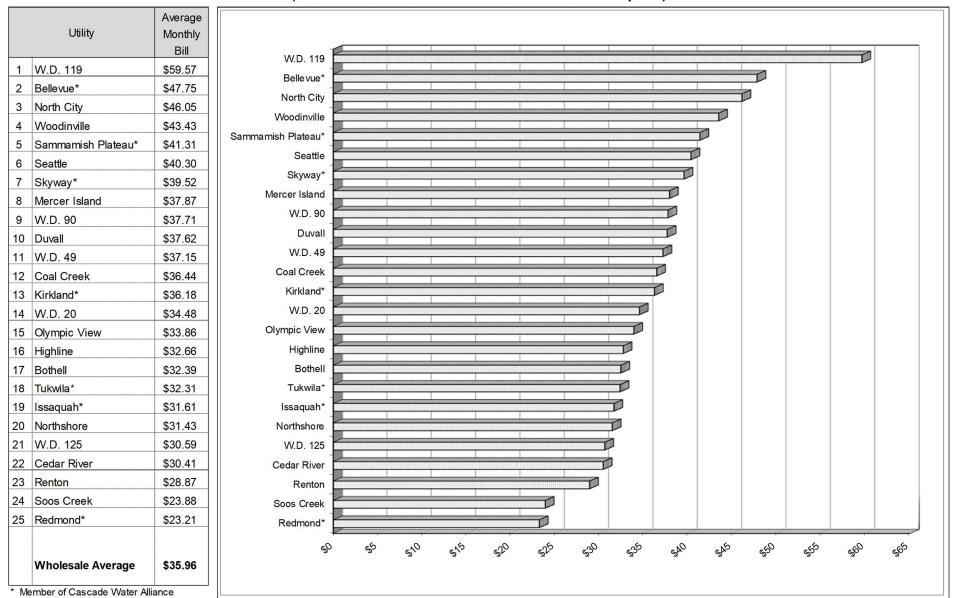


Figure 1.2

Average Monthly Residential Bills at 2021 Rates and MEDIUM Consumption

(6 ccf/mo Winter and 9 ccf/mo Summer Consumption)

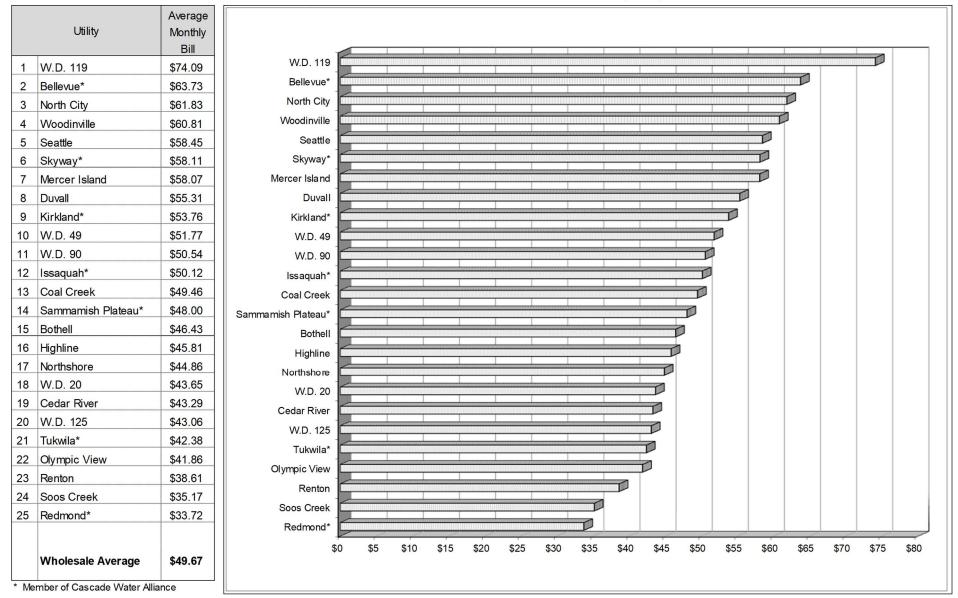


Figure 1.3

Average Monthly Residential Bills at 2021 Rates and HIGH Consumption

(12 ccf/mo Winter and 21 ccf/mo Summer Consumption)

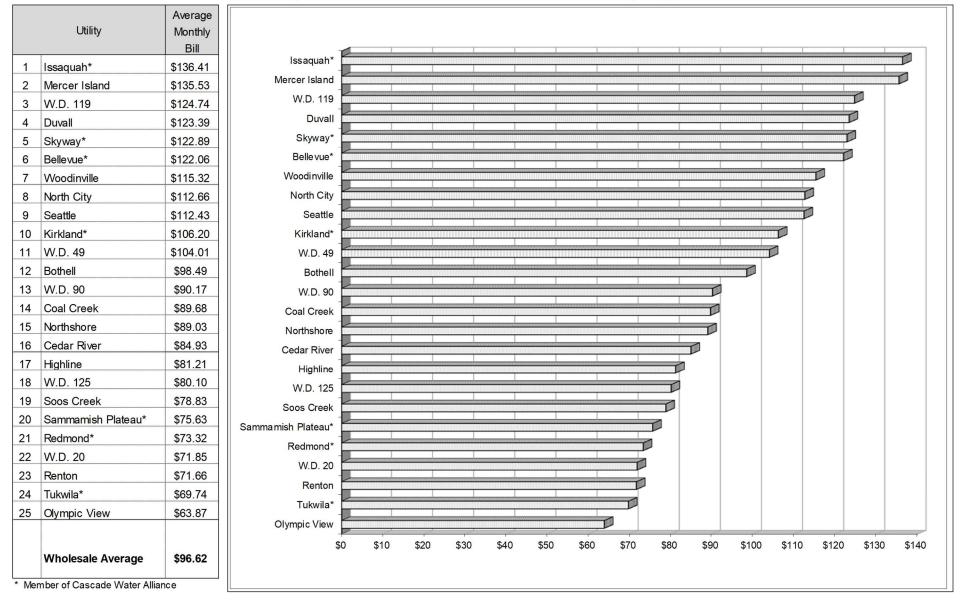
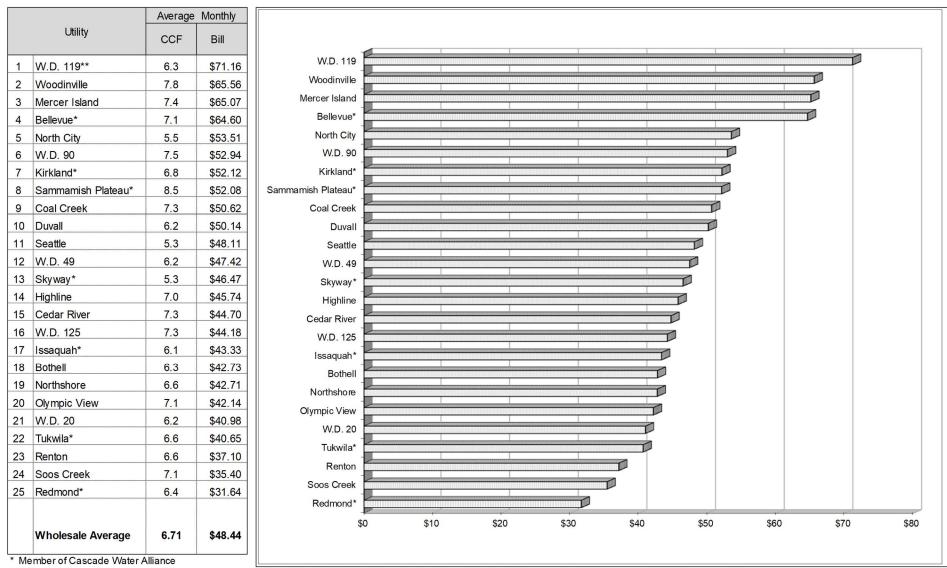


Figure 1.4

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



** W.D. 119 did not submit data for 2020. Its average monthly residential bill is therefore calculated by applying its 2021 rates to its 2019 average residential consumption.

Table 1.3

AVERAGE ANNUAL, WINTER, AND SUMMER RESIDENTIAL BILLS with 2021 Rates & Medium Consumption: 6 ccf/mo Winter, 9 ccf/mo Summer Ranked from Highest to Lowest

| Rank | Utility | Mont | hly Residentia | l Bills | Summer/Winter | | |
|-------|--------------------|---------------------------------------|----------------------|---------|----------------|--|--|
| ιταπκ | Othity | Avg. Annual | Winter | Summer | Differential** | | |
| 1 | W.D. 119 | \$74.09 | \$64.28 | \$93.71 | 45.8% | | |
| 2 | Bellevue* | \$63.73 | \$57.58 | \$76.04 | 32.1% | | |
| 3 | North City | \$61.83 | \$56.05 | \$73.38 | 30.9% | | |
| 4 | Woodinville | \$60.81 | \$52.15 | \$78.13 | 49.8% | | |
| 5 | Seattle | \$58.45 | \$50.85 | \$73.64 | 44.8% | | |
| 6 | Skyway* | \$58.11 | \$72.79 | 43.4% | | | |
| 7 | Mercer Island | Aercer Island \$58.07 \$50.28 \$73.65 | | | | | |
| 8 | Duvall | \$55.31 | \$48.19 | \$69.56 | 44.3% | | |
| 9 | Kirkland* | \$53.76 | \$47.90 | \$65.49 | 36.7% | | |
| 10 | W.D. 49 | \$51.77 | \$46.17 | \$62.97 | 36.4% | | |
| 11 | W.D. 90 | \$50.54 | \$44.38 | \$62.88 | 41.7% | | |
| 12 | lssaquah* | \$50.12 | \$41.97 | \$66.43 | 58.3% | | |
| 13 | Coal Creek | \$49.46 | \$44.76 | \$58.86 | 31.5% | | |
| 14 | Sammamish Plateau* | \$48.00 | \$45.47 | \$53.06 | 16.7% | | |
| 15 | Bothell | \$46.43 | \$41.19 | \$56.91 | 38.2% | | |
| 16 | Highline | \$45.81 | \$40.76 | \$55.92 | 37.2% | | |
| 17 | Northshore | \$44.86 | \$40.02 | \$54.54 | 36.3% | | |
| 18 | W.D. 20 | \$43.65 | \$40.35 | \$50.25 | 24.5% | | |
| 19 | Cedar River | \$43.29 | \$38.29 | \$53.29 | 39.2% | | |
| 20 | W.D. 125 | \$43.06 | \$38.43 | \$52.32 | 36.1% | | |
| 21 | Tukwila* | \$42.38 | \$36.16 | \$54.82 | 51.6% | | |
| 22 | Olympic View | \$41.86 | \$38.40 | \$48.78 | 27.0% | | |
| 23 | Renton | \$38.61 | \$35.06 | \$45.71 | 30.4% | | |
| 24 | Soos Creek | \$35.17 | \$29.98 | \$45.56 | 52.0% | | |
| 25 | Redmond* | \$33.72 | \$33.72 \$30.01 \$41 | | 37.1% | | |
| | | | | | | | |
| WHO | DLESALE AVERAGE | \$49.67 | \$44.05 | \$60.90 | 38.3% | | |

* Member of Cascade Water Alliance

**Note that the summer/winter differential is not the differential in rates but in bills. Almost all utilities 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 utilities 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.

Table 1.4

| Ranking of Bills at Different Levels of Consumption |
|---|
|---|

| Rankin | g at Low Consumption' | Ranking at | Medium Consumption | Ranking | at High Consumption |
|--------|-----------------------|------------|--------------------|---------|---------------------|
| 1 | W.D. 119 | 1 | W.D. 119 | 1 | lssaquah* |
| 2 | Bellevue* | 2 | Bellevue* | 2 | Mercer Island |
| 3 | North City | 3 | North City | 3 | W.D. 119 |
| 4 | Woodinville | 4 | Woodinville | 4 | Duvall |
| 5 | Sammamish Plateau* | 5 | Seattle | 5 | Skyway* |
| 6 | Seattle | 6 | Skyway* | 6 | Bellevue* |
| 7 | Skyway* | 7 | Mercer Island | 7 | Woodinville |
| 8 | Mercer Island | 8 | Duvall | 8 | North City |
| 9 | W.D. 90 | 9 | Kirkland* | 9 | Seattle |
| 10 | Duvall | 10 | W.D. 49 | 10 | Kirkland* |
| 11 | W.D. 49 | 11 | W.D. 90 | 11 | W.D. 49 |
| 12 | Coal Creek | 12 | lssaquah* | 12 | Bothell |
| 13 | Kirkland* | 13 | Coal Creek | 13 | W.D. 90 |
| 14 | W.D. 20 | 14 | Sammamish Plateau* | 14 | Coal Creek |
| 15 | Olympic View | 15 | Bothell | 15 | Northshore |
| 16 | Highline | 16 | Highline | 16 | Cedar River |
| 17 | Bothell | 17 | Northshore | 17 | Highline |
| 18 | Tukwila* | 18 | W.D. 20 | 18 | W.D. 125 |
| 19 | lssaquah* | 19 | Cedar River | 19 | Soos Creek |
| 20 | Northshore | 20 | W.D. 125 | 20 | Sammamish Plateau* |
| 21 | W.D. 125 | 21 | Tukwila* | 21 | Redmond* |
| 22 | Cedar River | 22 | Olympic View | 22 | W.D. 20 |
| 23 | Renton | 23 | Renton | 23 | Renton |
| 24 | Soos Creek | 24 | Soos Creek | 24 | Tukwila* |
| 25 | Redmond* | 25 | Redmond* | 25 | Olympic View |

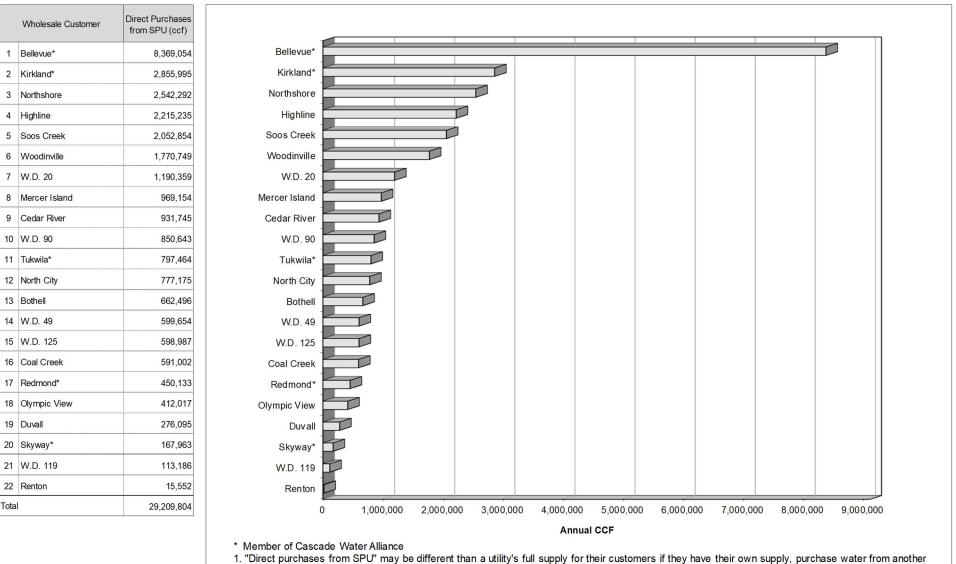
Definition of Consumption Levels:**

| | Winter | Summer | Average |
|--------|------------|-----------|-----------|
| Low | 3.5 ccf/mo | 5 ccf/mo | 4 ccf/mo |
| Medium | 6 ccf/mo | 9 ccf/mo | 7 ccf/mo |
| High | 12 ccf/mo | 21 ccf/mo | 15 ccf/mo |

* Member of Cascade Water Alliance

** Note that consumption levels have been revised downwards to reflect the long term decline in average consumption per single family household from 9.3 ccf/mo in the mid-1990s to about 7.0 ccf/mo currently.

Figure 2.1 WHOLESALE CUSTOMERS RANKED BY 2020 ANNUAL DIRECT PURCHASES FROM SPU¹



utility, or receive/send wheeled water from/to another utility.

Table 2.1

Direct Purchases from SPU in CCF (15 Years 2006-2020)¹

| Wholesale Customer | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 Bellevue* | 8,474,731 | 8,336,308 | 8,314,028 | 8,573,043 | 7,714,349 | 7,912,285 | 8,440,512 | 8,671,870 | 8,468,924 | 9,056,491 | 8,872,628 | 9,226,813 | 8,905,462 | 8,565,565 | 8,369,054 |
| 2 Bothell | 791,591 | 745,144 | 725,123 | 732,256 | 640,359 | 637,415 | 656,581 | 670,069 | 751,608 | 724,782 | 708,236 | 734,017 | 711,256 | 721,410 | 662,496 |
| 3 Cedar River | 1,071,615 | 947,745 | 872,814 | 924,524 | 800,755 | 758,691 | 701,387 | 809,005 | 827,277 | 910,094 | 853,281 | 898,592 | 903,816 | 874,495 | 931,745 |
| 4 Coal Creek | 598,753 | 526,420 | 516,395 | 597,952 | 485,859 | 493,533 | 525,773 | 521,259 | 555,475 | 602,575 | 595,446 | 600,015 | 609,914 | 575,463 | 591,002 |
| 5 Duvall | 242,851 | 230,852 | 222,695 | 253,521 | 224,298 | 233,390 | 232,947 | 235,508 | 243,416 | 260,014 | 249,931 | 260,769 | 261,715 | 265,875 | 276,095 |
| 6 Highline | 2,565,923 | 2,517,632 | 2,473,927 | 2,351,174 | 2,143,580 | 2,126,929 | 2,105,391 | 1,900,457 | 2,159,022 | 2,401,204 | 2,331,523 | 2,284,771 | 2,757,935 | 2,385,145 | 2,215,235 |
| 7 Kirkland* | 3,150,078 | 2,954,510 | 2,980,975 | 3,009,442 | 2,670,036 | 2,660,037 | 2,658,078 | 2,664,624 | 2,834,762 | 3,008,403 | 2,849,305 | 2,953,527 | 2,969,746 | 2,838,223 | 2,855,995 |
| 8 Mercer Island | 1,139,931 | 1,087,304 | 1,039,660 | 1,032,966 | 855,678 | 924,062 | 992,386 | 1,003,892 | 1,041,934 | 1,080,492 | 1,060,012 | 1,049,915 | 1,061,191 | 973,875 | 969,154 |
| 9 North City | 917,711 | 871,042 | 850,414 | 860,299 | 771,973 | 650,376 | 669,971 | 838,799 | 848,588 | 831,093 | 807,225 | 797,314 | 768,266 | 737,191 | 777,175 |
| 10 Northshore | 2,698,337 | 2,555,901 | 2,441,109 | 2,574,352 | 2,394,673 | 2,463,963 | 2,451,174 | 2,486,656 | 2,541,588 | 2,623,056 | 2,526,863 | 2,552,095 | 2,573,525 | 2,542,597 | 2,542,292 |
| 11 Olympic View | 549,538 | 406,617 | 406,802 | 496,479 | 361,712 | 348,497 | 374,499 | 385,411 | 402,010 | 427,550 | 428,769 | 428,901 | 496,246 | 508,637 | 412,017 |
| 12 Redmond* | 668,574 | 452,805 | 504,742 | 1,242,852 | 499,676 | 705,173 | 652,641 | 473,834 | 474,702 | 553,274 | 389,216 | 564,176 | 533,616 | 537,443 | 450,133 |
| 13 Renton | 48,314 | 51,959 | 38,125 | 42,490 | 59,904 | 88,749 | 51,086 | 43,815 | 47,775 | 54,951 | 47,067 | 56,131 | 57,192 | 39,003 | 450,133 |
| 14 Skyway* | 212,135 | 201,841 | 177,990 | 185,047 | 165,814 | 174,797 | 146,535 | 157,344 | 167,003 | 172,648 | 163,683 | 162,762 | 163,586 | 173,768 | 167,963 |
| 15 Soos Creek | 2,205,083 | 2,126,508 | 1,981,264 | 2,119,629 | 1,873,183 | 2,008,295 | 1,945,924 | 1,922,452 | 1,949,246 | 2,002,945 | 1,963,028 | 2,013,964 | 1,993,197 | 1,935,341 | 2,052,854 |
| 16 Tukwila* | 1,068,642 | 1,060,170 | 993,747 | 986,705 | 920,469 | 942,999 | 943,018 | 952,619 | 967,875 | 1,001,737 | 961,845 | 929,710 | 828,712 | 888,727 | 797,464 |
| 17 Woodinville | 2,032,328 | 1,996,289 | 1,956,618 | 2,184,773 | 1,781,785 | 1,759,518 | 1,740,966 | 1,915,528 | 1,922,760 | 1,987,587 | 1,830,139 | 1,903,717 | 1,863,406 | 1,789,421 | 1,770,749 |
| 18 W.D. 20 | 1,416,165 | 1,339,902 | 1,358,086 | 1,386,645 | 1,237,668 | 1,233,990 | 1,215,151 | 1,245,419 | 1,264,750 | 1,240,865 | 1,172,367 | 1,177,081 | 1,177,316 | 1,199,881 | 1,190,359 |
| 19 W.D. 49 | 599,956 | 636,898 | 585,791 | 589,113 | 556,683 | 638,260 | 610,235 | 562,840 | 606,746 | 625,497 | 631,025 | 602,751 | 623,686 | 593,724 | 599,654 |
| 20 W.D. 90 | 539,675 | 542,270 | 550,935 | 521,397 | 433,468 | 493,819 | 536,673 | 540,180 | 594,651 | 621,453 | 592,318 | 628,548 | 679,943 | 743,654 | 850,643 |
| 21 W.D. 119 | 131,697 | 121,176 | 117,871 | 132,998 | 115,579 | 110,073 | 111,287 | 108,192 | 150,749 | 122,240 | 111,629 | 129,592 | 121,757 | 115,562 | 113,186 |
| 22 W.D. 125 | 623,262 | 597,401 | 549,107 | 587,539 | 514,478 | 495,650 | 495,315 | 481,332 | 458,505 | 495,718 | 533,392 | 553,383 | 560,243 | 578,921 | 598,987 |
| Total | 31,852,728 | 30,402,609 | 29,752,240 | 31,481,128 | 27,322,218 | 27,967,343 | 28,365,209 | 28,702,943 | 29,392,493 | 30,918,362 | 29,789,035 | 30,621,145 | 30,735,637 | 29,583,921 | 29,644,385 |

* Members of Cascade Water Alliance. Water shown as "purchased" by Cascade members reflects consumption measured through their meters with SPU. However, individual Cascade members are not billed directly by SPU. 1. "Direct purchases from SPU" may be different than a utility's full supply for their customers due to factors such as utilities that have their own supply or wheel water to another utility.

Figure 2.2 WHOLESALE CUSTOMERS RANKED BY 2020 ANNUAL RETAIL SALES¹

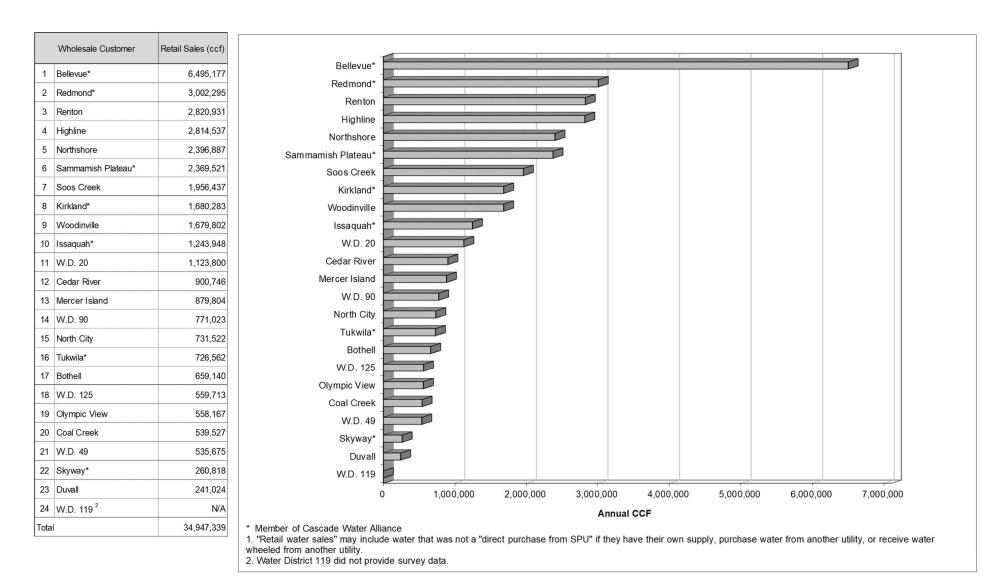


Table 2.2

Retail Sales in CCF (15 Years 2006-2020)1

| Water Utility | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----------------------|--------------|--------------|------------|-----------------------|------------|--------------|------------|------------|--------------|------------|--------------|--------------|--------------------------|------------|--------------|
| 1 Bellevue* | No Data | 6,851,810 | 6,612,399 | 6,908,439 | 6,276,954 | No Data | 6,652,102 | 6,622,564 | 6,776,081 | 7,068,290 | 6,853,901 | 6,828,709 | 6,779,446 | 6,401,318 | 6,495,177 |
| 2 Bothell | 656,619 | 693,484 | 711,427 | 726,962 | 681,145 | 627,483 | 645,746 | 663,539 | 715,943 | 738,030 | 756,659 | 749,566 | 711,283 | 714,905 | 659,140 |
| 3 Cedar River | 964,037 | 904,362 | 855,210 | 941,306 | 816,633 | 791,574 | 845,321 | 837,278 | 856,402 | 920,373 | 867,483 | 911,155 | 906,155 | 842,859 | 900,746 |
| 4 Coal Creek | 563,705 | 491,502 | 473,088 | 554,686 | 439,423 | 443,453 | 479,094 | 472,781 | 491,909 | 560,980 | 502,896 | 542,719 | 547,773 | 514,115 | 539,527 |
| 5 Duvall | 223,653 | 220,032 | 216,704 | 239,872 | 200,987 | 215,895 | 216,172 | 213,225 | 229,374 | 228,157 | 231,285 | 240,887 | 225,971 | 242,548 | 241,024 |
| 6 Highline | 3,066,659 | 2,976,073 | 2,840,910 | 2,920,652 | 2,661,812 | 2,644,611 | 2,659,258 | 2,703,065 | 2,779,089 | 2,847,534 | 2,850,950 | 2,868,973 | 2,933,283 | 2,847,942 | 2,814,537 |
| 7 Issaquah* | No Data | No Data | 806,842 | 892,875 | 809,031 | 821,652 | 881,251 | 872,886 | 984,285 | 973,085 | 937,721 | 1,111,339 | 1,100, <mark>4</mark> 21 | 1,092,068 | 1,243,948 |
| 8 Kirkland* | 1,843,186 | 1,729,375 | 1,657,408 | 1,801,406 | 1,574,869 | No Data | 1,566,695 | 1,698,294 | 1,773,444 | 1,804,311 | 1,746,056 | 2,177,462 | 2,017,755 | 1,719,358 | 1,680,283 |
| 9 Mercer Island | 996,235 | 978,013 | 931,806 | 1,000,468 | 866,165 | 891,529 | 897,230 | 900,575 | 966,483 | 959,114 | 930,888 | 956,501 | 955,383 | 878,100 | 879,804 |
| 10 North City | 849,559 | 813,161 | 856,562 | 843,675 | 746,571 | 709,027 | 731,780 | 746,917 | 754,150 | 750,242 | 754,789 | 756,651 | 741,914 | 722,107 | 731,522 |
| 11 Northshore | 2,630,374 | 2,501,954 | 2,394,514 | 2,512,510 | 2,334,511 | 2,266,068 | 2,362,615 | 2,427,789 | 2,452,293 | 2,505,023 | 2,384,959 | 2,430,100 | 2,433,274 | 2,404,209 | 2,396,887 |
| 12 Olympic View | 659,836 | 612,943 | 600,568 | 683,135 | 585,617 | 575,861 | 558,421 | 586,950 | 603,319 | 618,309 | 597,300 | 608,778 | 606,324 | 584,802 | 558,167 |
| 13 Redmond* | No Data | No Data | 3,085,835 | 3,165,854 | 2,969,511 | 2,832,871 | 2,996,495 | 3,005,475 | 3,105,651 | 2,967,794 | 3,288,969 | 3,581,110 | 3,467,236 | 3,146,423 | 3,002,295 |
| 14 Renton | No Data | 3,083,313 | 2,900,725 | 3,035,983 | 2,789,845 | 2,830,862 | 2,955,165 | 2,867,155 | 2,859,392 | 3,007,726 | 2,940,561 | 3,048,079 | 3,102,042 | 2,911,372 | 2,820,93 |
| 15 Sammamish Plateau* | No Data | No Data | 2,113,475 | 2,310,814 | 1,976,398 | 1,984,468 | 2,070,994 | 2,053,303 | 2,150,767 | 2,386,234 | 2,260,752 | 2,451,686 | 2,404,829 | 2,225,557 | 2,369,52 |
| 16 Skyway | 292,983 | 285,914 | 275,432 | 277,182 | 257,760 | 257,921 | 252,642 | 252,760 | 268,745 | 273,221 | 257,206 | 263,956 | 260,042 | 254,741 | 260,818 |
| 17 Soos Creek | 2,003,456 | 1,972,069 | 1,832,233 | 1,903,844 | 1,693,450 | 1,737,069 | 1,867,566 | 1,861,518 | 1,896,792 | 1,903,748 | 1,899,834 | 1,927,781 | 1,938,356 | 1,879,929 | 1,956,437 |
| 18 Tukwila* | No Data | 918,957 | 883,576 | 888,759 | 843,254 | 836,866 | 869,865 | 884,564 | 914,889 | 932,015 | 876,305 | 932,099 | 899,332 | 826,463 | 726,562 |
| 19 Woodinville | 2,044,244 | 1,884,117 | 1,789,966 | 1,987,478 | 1,679,587 | 1,696,919 | 1,724,180 | 1,739,578 | 1,848,832 | 1,897,607 | 1,717,238 | 1,811,486 | 1,768,412 | 1,685,040 | 1,679,802 |
| 20 W.D. 20 | 1,196,913 | 1,141,240 | 1,099,170 | 1,115,278 | 1,034,602 | 1,005,816 | 1,013,874 | 994,177 | 1,035,187 | 1,029,163 | 1,028,520 | 1,002,558 | 1,049,658 | 1,114,723 | 1,123,800 |
| 21 W.D. 49 | 620,546 | 602,572 | 576,403 | 586,525 | 549,063 | 548,355 | 548,241 | 537,628 | 558,191 | 572,646 | 567,597 | 566,205 | 577,452 | 553,946 | 535,675 |
| 22 W.D. 90 | 694,640 | 664,617 | 652,558 | 720,856 | 634,419 | 638,859 | 667,072 | 694,406 | 706,094 | 764,579 | 709,933 | 762,857 | 757,774 | 733,208 | 771,023 |
| 23 W.D. 119 | 126,326 | 109,394 | 109,449 | 116, <mark>871</mark> | 102,606 | No Data | 113,957 | 112,750 | No Data | 127,510 | No Data | No Data | 99,809 | 95,928 | No Data |
| 24 W.D. 125 | 636,882 | 637,662 | 616,905 | 654,841 | 574,180 | 559,617 | 570,319 | 555,828 | 573,455 | 582,314 | 571,481 | 570,541 | 572,130 | 552,137 | 559,713 |
| TOTAL ² | Hirring Data | Hirring Data | 34,982,501 | 36,881,070 | 33,196,250 | Mirring Data | 34,251,910 | 34,409,632 | Mizziną Data | 36,529,742 | Mirsing Data | Mirsing Data | 36,960,206 | 34,943,799 | Hirring Data |
| 25 Seattle | 29,114,620 | 28,490,213 | 27,538,310 | 28,015,569 | 26,561,023 | 25,824,242 | 26,279,721 | 26,429,190 | 26,190,327 | 27,150,842 | 26,539,995 | 27,155,436 | 27,049,608 | 26,589,304 | 25,243,88 |

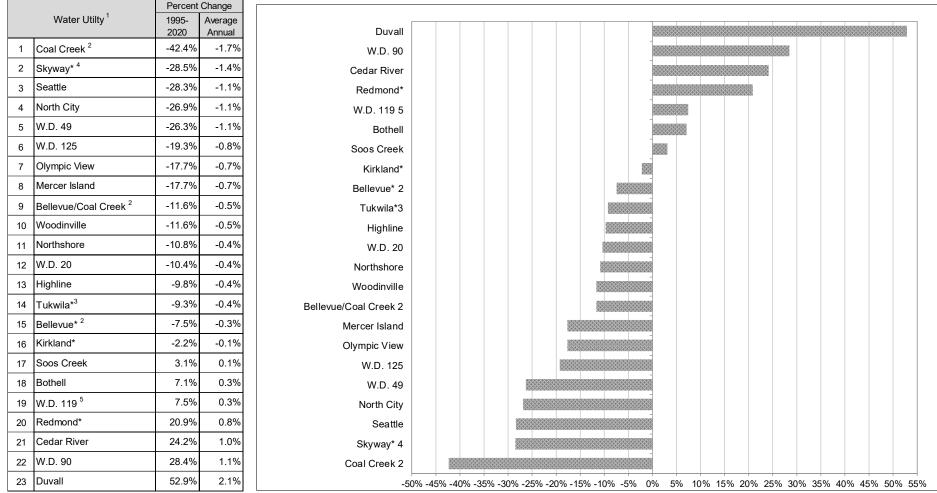
1. "Retail water sales" may include water that was not a "direct purchase from SPU" in the case of utilities that have their own supply or receive water wheeled from another utility.

Consumption data is missing for Bothell in 2004 and Northshore in 2005. Redmond did not provide data for 2004, 2005, 2006, and 2007. Bellevue and Tukwila did not provide data for 2006. Historical data is not available for Renton prior to 2007 nor available for Issaquah and Sammamish Plateau prior to 2008. Bellevue, Kirkland and WD 119 did not provide data for 2011, and WD 119 did not provide data for 2014, 2016, 2017 and 2020.

* Member of Cascade Water Alliance.

Figure 2.3

PERCENT CHANGE IN RETAIL DEMAND BY UTILITY 1995-2020



* Member of Cascade Water Alliance.

1. Renton not included since data not available prior to 2007. Issaquah and Sammamish Plateau not included since data not available prior to 2008.

2. Growth rates for Bellevue and Coal Creek reflect the impact of the annexation of a large portion of Coal Creek by Bellevue in 2003. Much of the 42% decline in Coal Creek's consumption is due to their transfering more than half their customers to Bellevue. The change in demand for the combined Bellevue/Coal Creek service area is also shown.

3. Growth rate for Tukwila is measured from 1996, the year after a large area, including Boeing, was transferred from Seattle's retail service area to Tukwila.

4. Growth rate for Skyway is measured from 2000, due to a significant change (increase) in their sales in 2000.

5. Growth rate for WD 119 is measured to 2019, since a survey was provided with 2020 data.

Figure 2.4 Non-Revenue Water as Percent of Total Water Use 2020 (Two Previous Years Shown in Gray)

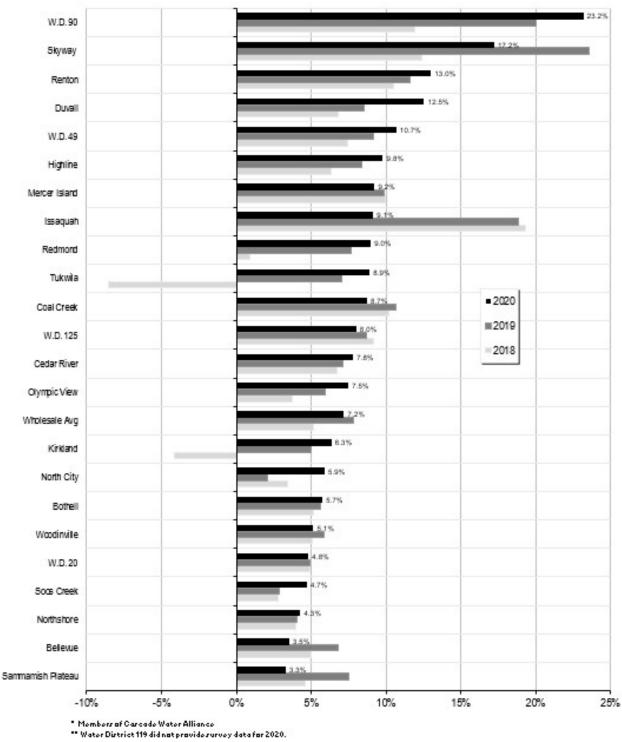


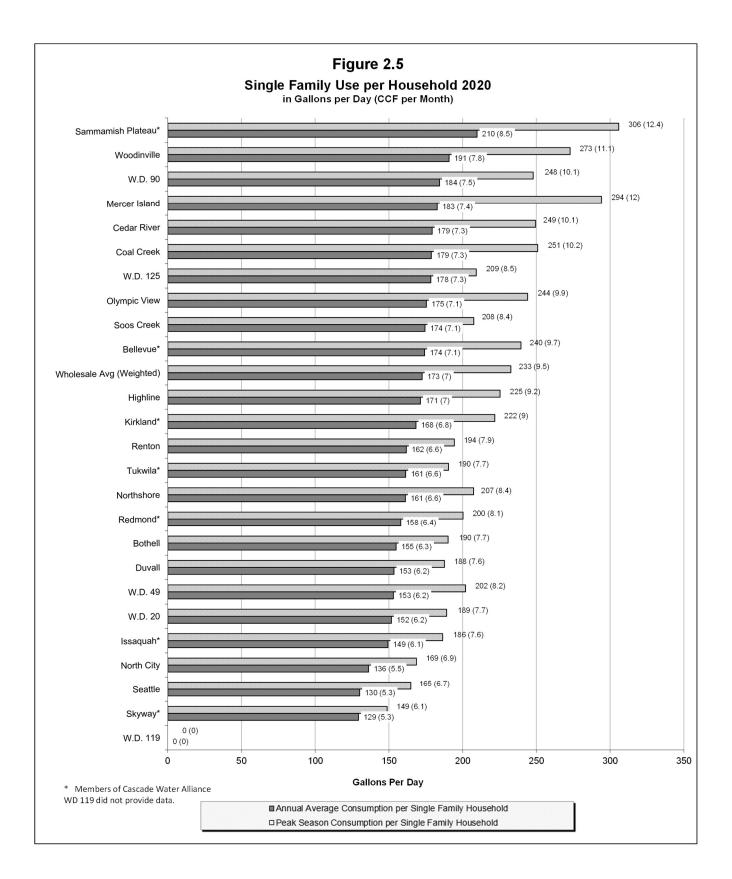
Table 2.3

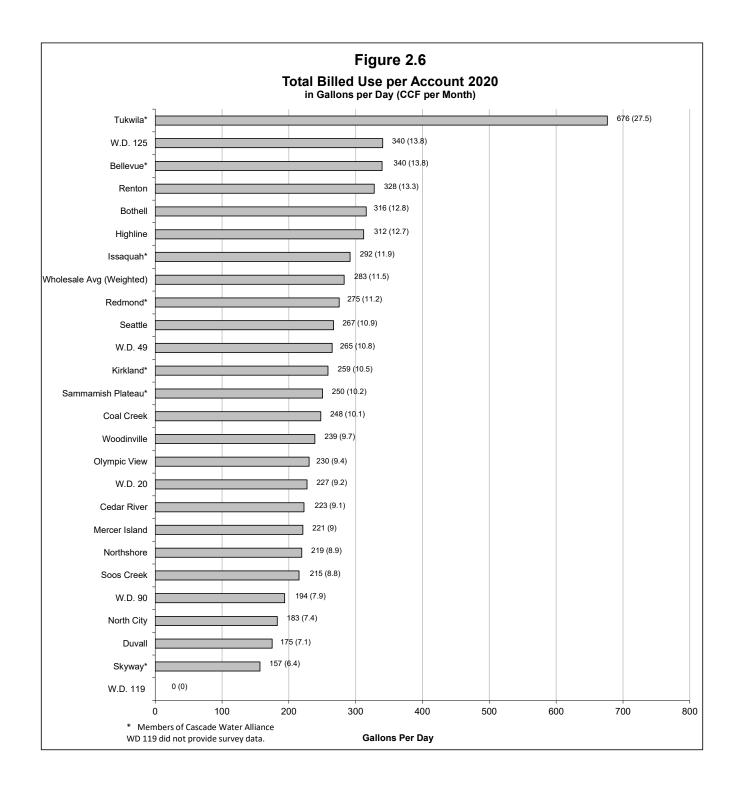
Non-Revenue Water as Percent of Total Water Use (15 Year Avg 2006-2020)

| | | | | | | | | | | | • | | | | | , | |
|----|--------------------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | Wholesale Customer | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 15 Yr Avg |
| 1 | Bellevue* | NA | 9.2% | 12.5% | 10.3% | 10.9% | NA | 3.5% | 17.4% | 2.6% | 4.4% | 3.9% | 7.5% | 5.0% | 6.8% | 3.5% | 7.5% |
| 2 | Bothell | 18.8% | 4.6% | 5.5% | 4.7% | 0.1% | 6.6% | 5.8% | 5.0% | 8.0% | 2.2% | -2.9% | 2.8% | 5.2% | 5.6% | 5.7% | 5.2% |
| 3 | Cedar River | 10.0% | 4.6% | 1.9% | 3.0% | 3.9% | 2.1% | -11.0% | 3.9% | 3.7% | 4.5% | 5.1% | 5.0% | 6.7% | 7.1% | 7.8% | 3.9% |
| 4 | Coal Creek | 5.9% | 6.6% | 8.4% | 7.2% | 9.6% | 10.1% | 8.9% | 9.3% | 11.4% | 6.9% | 15.5% | 9.5% | 10.2% | 10.7% | 8.7% | 9.3% |
| 5 | Duvall | 7.7% | 4.5% | 2.5% | 5.2% | 10.2% | 7.3% | 7.0% | 9.3% | 5.6% | 12.1% | 7.3% | 7.3% | 6.8% | 8.6% | 12.5% | 7.6% |
| 6 | Highline | 3.2% | 7.2% | 10.1% | 8.2% | 8.8% | 8.1% | 8.8% | 6.4% | 10.1% | 12.0% | 10.6% | 9.9% | 6.3% | 8.4% | 9.8% | 8.5% |
| 7 | lssaquah* | NA | NA | 13.0% | 10.9% | 11.8% | 12.7% | 9.9% | 15.1% | 6.6% | 17.5% | 19.6% | 11.3% | 19.3% | 18.8% | 9.1% | 13.5% |
| 8 | Kirkland* | 0.9% | 4.5% | 10.3% | 7.0% | 5.9% | NA | 8.6% | 10.3% | 3.2% | 4.0% | 5.6% | -9.6% | -4.1% | 5.0% | 6.3% | 4.1% |
| 9 | Mercer Island | 7.4% | 10.1% | 10.4% | 3.1% | -1.2% | 3.5% | 9.6% | 10.3% | 7.2% | 11.2% | 12.2% | 8.9% | 10.0% | 9.8% | 9.2% | 8.1% |
| 10 | North City | 7.4% | 6.6% | -0.7% | 1.9% | 3.3% | -13.2% | -9.2% | 11.0% | 11.1% | 9.7% | 6.5% | 5.1% | 3.5% | 2.0% | 5.9% | 3.4% |
| 11 | Northshore | 2.5% | 1.9% | 0.8% | 1.2% | 0.9% | 6.7% | 2.4% | 1.2% | 2.5% | 3.3% | 4.4% | 3.3% | 3.9% | 4.0% | 4.3% | 2.9% |
| 12 | Olympic View | 8.5% | 7.0% | 5.8% | 4.4% | 6.1% | 8.3% | 8.5% | 6.4% | 7.5% | 3.8% | 4.8% | 4.2% | 3.7% | 5.9% | 7.5% | 6.2% |
| 13 | Redmond* | NA | NA | 7.2% | 19.1% | 26.1% | -2.5% | 5.0% | 5.2% | 8.3% | 19.0% | 2.9% | 0.2% | 0.9% | 7.6% | 9.0% | 8.3% |
| 14 | Renton | 17.0% | 20.2% | 18.6% | 16.9% | 14.7% | 13.0% | 6.2% | 9.4% | 12.4% | 13.3% | 12.4% | 11.3% | 10.5% | 11.6% | 13.0% | 13.4% |
| 15 | Sammamish Plateau* | NA | NA | 9.5% | 3.2% | 7.8% | -1.9% | 6.9% | 9.5% | 8.9% | 7.3% | 6.6% | 5.3% | 4.6% | 7.5% | 3.3% | 6.0% |
| 16 | Skyway* | 7.6% | 5.1% | 0.7% | 4.4% | 2.0% | 8.1% | 3.8% | 6.7% | 6.4% | 8.5% | 9.9% | 9.7% | 12.4% | 23.6% | 17.2% | 8.4% |
| 17 | Soos Creek | 9.1% | 7.3% | 7.5% | 10.2% | 9.6% | 13.5% | 4.0% | 3.2% | 2.7% | 5.0% | 3.2% | 4.3% | 2.8% | 2.9% | 4.7% | 6.0% |
| 18 | Tukwila* | NA | 13.3% | 11.1% | 9.9% | 8.4% | 11.3% | 7.8% | 7.1% | 5.5% | 7.0% | 8.9% | -0.3% | -8.5% | 7.0% | 8.9% | 7.0% |
| 19 | W.D. 119 | 4.4% | 10.0% | 7.4% | 12.4% | 11.5% | NA | 7.4% | 10.0% | NA | 9.5% | NA | NA | 18.3% | 17.3% | NA | 10.8% |
| 20 | W.D. 125 | 12.7% | 12.7% | 13.8% | 8.5% | 8.8% | 7.6% | 7.9% | 8.6% | 3.5% | 7.9% | 9.0% | 9.3% | 9.2% | 8.7% | 8.0% | 9.1% |
| 21 | W.D. 20 | 7.6% | 5.4% | 7.1% | 10.2% | 7.1% | 9.6% | 6.4% | 10.0% | 7.4% | 6.0% | 4.2% | 8.4% | 4.9% | 4.9% | 4.8% | 6.9% |
| 22 | W.D. 49 | -3.4% | 5.4% | 1.6% | 0.4% | 1.4% | 14.1% | 10.2% | 4.5% | 8.0% | 8.4% | 10.1% | 6.1% | 7.4% | 9.1% | 10.7% | 6.3% |
| 23 | W.D. 90 | 7.7% | 7.0% | 11.0% | 7.9% | 8.6% | 6.8% | 12.7% | 7.2% | 12.1% | 11.4% | 15.5% | 11.7% | 11.9% | 20.0% | 23.2% | 11.6% |
| 24 | Woodinville | -0.6% | 5.6% | 8.5% | 9.0% | 5.7% | 3.6% | 1.0% | 9.2% | 3.8% | 4.5% | 6.2% | 4.8% | 5.1% | 5.8% | 5.1% | 5.2% |
| 25 | Wholesale Avg | 7.0% | 8.6% | 9.7% | 9.0% | 9.9% | 7.9% | 5.3% | 9.6% | 6.3% | 8.2% | 6.8% | 5.4% | 5.1% | 7.8% | 7.2% | 7.6% |

* Member of Cascade Water Alliance. Data not availble for all years.

WD 119 did not submit data for 2011, 2014, 2016, 2017, and 2020.





| Table 2.4 |
|---|
| Single Family Use per Household 1994-2020 |
| (in CCE per Household per Month) |

| ₩ater Utility | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 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 | NA | 8.5 | 7.5 | 8.6 | 7.6 | NA | 7.7 | 7.6 | 7.8 | 8.1 | 7.8 | 7.9 | 7.8 | 7.4 | 7.1 |
| 2 Bothell | 8.5 | 7.9 | 8.1 | 7.9 | 8.4 | 7.6 | 8.0 | 7.5 | 7.6 | 8.0 | NA | 5.7 | 5.7 | 9.1 | 7.2 | 7.3 | 7.2 | 6.1 | 6.3 | 6.4 | 7.2 | 6.4 | 6.1 | 6.6 | 6.2 | 6.1 | 6.3 |
| 3 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 | 7.9 | 7.4 | 8.3 | 7.1 | 6.8 | 7.2 | 7.1 | 7.1 | 7.6 | 7.1 | 7.5 | 7.3 | 6.7 | 7.3 |
| 4 CoalCreek | 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 | 7.9 | 7.7 | 8.5 | 7.1 | 7.0 | 7.2 | 7.3 | 7.3 | 7.7 | 7.3 | 7.3 | 7.5 | 7.0 | 7.3 |
| 5 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 | 6.4 | 6.9 | 7.6 | 6.6 | 6.7 | 6.1 | 6.1 | 6.5 | 6.6 | 6.6 | 6.8 | 6.8 | 5.9 | 6.2 |
| 6 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 | 7.3 | 7.0 | 7.5 | 6.6 | 6.5 | 6.5 | 6.4 | 6.5 | 6.7 | 6.6 | 6.7 | 6.8 | 6.6 | 7.0 |
| 7 Issaquah" | NA | 5.7 | 6.1 | 5.5 | 5.4 | 5.7 | 5.2 | 5.7 | 5.9 | 5.5 | 6.1 | 5.9 | 5.6 | 6.1 |
| 8 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 | 7.8 | 7.3 | 7.8 | 6.8 | NA | 6.9 | 7.0 | 7.5 | 7.3 | 7.1 | 9.3 | 7.6 | 6.7 | 6.8 |
| 9 MercerIsland | 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 | 8.9 | 8.5 | 9.0 | 7.8 | 8.0 | 8.0 | 7.9 | 8.4 | 8.5 | 8.0 | 8.2 | 8.2 | 7.4 | 7.4 |
| 10 North City | 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 | 6.3 | 6.8 | 6.7 | 5.8 | 5.7 | 5.7 | 5.8 | 5.7 | 5.9 | 5.6 | 5.7 | 5.6 | 5.3 | 5.5 |
| 11 Northshore | 9.6 | 9.2 | 9.0 | 8.6 | 9.8 | 8.7 | 8.5 | 8.1 | 8.4 | 8.9 | 8.4 | NA | 8.4 | 7.6 | 6.9 | 7.4 | 6.8 | 6.5 | 6.8 | 6.7 | 6.2 | 6.8 | 6.4 | 6.6 | 6.5 | 6.2 | 6.6 |
| 12 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 | 8.4 | 8.0 | 8.7 | 7.5 | 7.5 | 7.3 | 7.6 | 7.7 | 7.7 | 7.4 | 7.5 | 7.4 | 7.1 | 7.1 |
| 13 Redmond" | 9.4 | 9.0 | 9.1 | 8.7 | 9.1 | 8.6 | 8.3 | 7.7 | 7.7 | 8.2 | NA | NA | NA | NA | 6.5 | 6.6 | 6.4 | 6.1 | 6.3 | 6.2 | 6.3 | 5.2 | 6.3 | 6.8 | 6.4 | 6.2 | 6.4 |
| 14 Renton | NA | 6.8 | 7.0 | 6.4 | 6.6 | 6.4 | 6.5 | 6.3 | 6.6 | 6.2 | 6.4 | 6.4 | 6.2 | 6.6 |
| 15 Sammamish Plateau* | NA | 8.7 | 9.7 | 8.2 | 8.1 | 8.3 | 8.1 | 8.4 | 9.2 | 8.5 | 8.9 | 8.6 | 7.6 | 8.5 |
| 16 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 | 6.0 | 5.9 | 5.9 | 5.4 | 5.3 | 5.2 | 5.1 | 5.2 | 5.3 | 5.0 | 5.2 | 5.1 | 5.0 | 5.3 |
| 17 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 | 7.2 | 7.0 | 7.2 | 6.5 | 6.6 | 7.1 | 7.1 | 7.0 | 6.7 | 7.0 | 7.1 | 7.3 | 6.6 | 7.1 |
| 18 Tukwila" | 7.5 | 6.4 | 7.7 | 7.4 | 7.4 | 7.2 | 7.0 | 6.7 | 6.9 | 7.2 | 6.2 | 5.8 | NA | 6.6 | 6.2 | 6.7 | 6.1 | 5.8 | 5.9 | 6.0 | 6.1 | 6.1 | 5.8 | 6.2 | 5.9 | 6.1 | 6.6 |
| 19 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 | 8.9 | 8.6 | 9.5 | 7.9 | 7.9 | 8.1 | 8.2 | 8.9 | 8.7 | 7.8 | 8.3 | 8.0 | 7.5 | 7.8 |
| 20 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 | 6.8 | 6.7 | 6.8 | 6.3 | 6.0 | 6.1 | 6.0 | 6.2 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 6.2 |
| 21 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 | 7.1 | 6.8 | 7.3 | 6.6 | 6.5 | 6.5 | 6.2 | 6.3 | 6.4 | 6.3 | 6.2 | 6.2 | 5.9 | 6.2 |
| 22 W.D. 90 | NA | NA | NA | NA | NA | 8.4 | 9.5 | 8.5 | 8.8 | 8.7 | 8.5 | 7.5 | 8.2 | 7.7 | 7.4 | 8.0 | 6.8 | 6.9 | 7.0 | 7.1 | 7.1 | 7.5 | 7.0 | 7.4 | 7.3 | 7.0 | 7.5 |
| 23 W.D. 119 | NA | NA | NA | NA | NA | 8.1 | 8.2 | 7.7 | 8.1 | 9.1 | 8.2 | 7.5 | 9.0 | 7.6 | 7.6 | 8.1 | 7.1 | NA | 7.9 | 7.8 | NA | 8.8 | NA | NA | 6.6 | 6.3 | NA |
| 24 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 | 8.0 | 7.5 | 7.9 | 7.1 | 7.0 | 7.0 | 6.9 | 7.1 | 7.4 | 7.1 | 7.2 | 7.2 | 6.9 | 7.3 |
| 25 Wholesale Avg (Weighted) | 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 | 7.8 | 7.3 | 7.9 | 6.9 | 7.0 | 7.0 | 7.0 | 7.1 | 7.2 | 7.0 | 7.3 | 7.0 | 6.7 | 7.0 |
| 26 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 | 5.9 | 5.7 | 5.9 | 5.4 | 5.2 | 5.3 | 5.3 | 5.3 | 5.3 | 5.1 | 5.3 | 5.1 | 5.0 | 5.3 |

* Members of Cascade Water Alliance. No history is available for Issaquah, and Sammamish Plateau prior to 2008. No history is available for Renton prior to 2008. More recently, Bellevue and Kirkland did not provide data for 2011 and WD 119 did not provide data for 2011, 2014, 2016, 2017, and 2020.

