



Date Submitted: 5/19/2022

Water Use Efficiency Annual Performance Report - 2021

WS Name: WENATCHEE CITY OF

Water System ID#: 94350 WS County: CHELAN

Report submitted by: Terry OKeefe

Meter Installation Information:

Estimate the percentage of metered connections: 100%

If not 100% metered – Did you submit a meter installation plan to DOH? No

Within your meter installation plan, what date did you commit to completing meter installation?

Current status of meter installation:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period 01/01/2021 To 12/31/2021

Incomplete or missing data for the year? No

If yes, explain:

| | | |
|--|-----------------------|------------------|
| Total Water Produced & Purchased (TP) – Annual volume gallons | 1,369,729,000 gallons | |
| Authorized Consumption (AC) – Annual Volume in gallons | 1,120,552,620 gallons | |
| Distribution System Leakage – Annual Volume TP – AC | 249,176,380 gallons | |
| Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$ | 18.2 % | |
| 3-year annual average - % | 17.0 % | 2019, 2020, 2021 |

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 08/29/2018

Has goal been changed since last performance report? No

Note: Customer goal must be re-established every 6 years through a public process.

Customer WUE Goal (Demand Side):

Set a residential water use goal of 125 gallons per capita per day by December 31, 2024.

Customer (Demand Side) Goal Progress:

The City of Wenatchee implemented the following measures in 2020: consumption history shown on the water bill and available online, leak notices and leak detection information provided to customers, water use efficiency outreach and education provided at the Wenatchee School District afterschool program, at the Cherry Creek Radio Home and Garden Expo, at Sustainable Wenatchee Earth Day Fair, on the City website (www.wenatchewa.gov/water_wise), City Facebook page, through radio ads, and in the consumer confidence report (CCR). Water use efficiency literature was also available at City facilities.

During the development of the water comprehensive plan adopted in 2019, the average daily water use for the City of Wenatchee was calculated to be 135 gallons per capita per day. In 2018, the City established a goal of 125 gallons per capita per day by December 31, 2024. Since 2016, the City has seen a steady decline in residential water use. Based on the 2021 water use data, the current average daily water use is 138 gallons per capita per day. This is an increase from 2020, which may be due to the stay at home order still being in place for part of the year due to the pandemic, as well as the record breaking summer temps which exceeded *113F. From June 22-August 17, Wenatchee high temps averaged over *96F.

Additional Information Regarding Supply and Demand Side WUE Efforts

Due to the continued stay at home order in response to the pandemic and the slow return to normal business operation, we feel that 2021 is not reflective of normal water usage within our community. In addition, Wenatchee broke the record for its all-time highest temperature with a temperature of 113 degrees in June. Wenatchee experienced one of the most extreme and prolonged heat waves in the recorded history with temperatures staying about 10 degrees above normal for close to a month during 2021.

Describe Progress in Reaching Goals:

- Estimate how much water you saved.
- Report progress toward meeting goals within your established timeframe.
- Identify any WUE measures you are currently implementing.
- If you established a goal to maintain a historic level (such as maintaining daily consumption at 65 gallons per person per day for the next two years) you must explain why you are unable to reduce water use below that level.

The City of Wenatchee's supply side goal was to reduce distribution leakage to 10% or less. The City has known leakage at two of the City's concrete reservoirs that are being monitored. One of the reservoirs is scheduled to be replaced within 10 years, hopefully sooner than later. City staff also have continued to track non emergency fire hydrant usage, estimated water loss during main breaks and implemented leak detection efforts.

The following questions will help DOH better understand water usage, water resources management and drought response. The data will be used to provide technical assistance, not for regulatory purposes.

All questions are voluntary

| Month | Date of Measurement | Static Water Level (feet below measuring point) | Dynamic Water Level (feet below measuring point) |
|--------------|----------------------------|--|---|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |

Water level data:

Please provide the following information (if known) to help us better utilize the water level data.

Well tag Id number:

Well depth:

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...)

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)?

| Month | Volume of Water Produced in gallons |
|-----------|-------------------------------------|
| January | |
| February | |
| March | |
| April | |
| May | |
| June | |
| July | |
| August | |
| September | |
| October | |
| November | |
| December | |

Water shortage response:

Did you activate any level of water shortage response plan the previous year?

- Yes No There was no need to

If you activated a water shortage response plan the previous year, what level did you activate? (Check all that apply)

- Advisory Conservation Voluntary Conservation
 Mandatory Conservation Rationing Other

What factors caused your water shortage the previous year?

- Drought Fire Landslides Earthquakes
 Flooding Water Supply Limitations Other

Do not mail, fax, or email this report to DOH