



Date Submitted: 6/11/2018

Water Use Efficiency Annual Performance Report - 2017

WS Name: WENATCHEE, CITY OF

Water System ID# : 94350

WS County: CHELAN

Report submitted by: *Jessica Shaw*

Meter Installation Information:

Estimate the percentage of metered connections: *100%*

If not fully metered - Current status of meter installation:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: *01/01/2017 To 12/31/2017*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	<i>1,312,524,000</i> gallons
Authorized Consumption (AC) – Annual Volume	<i>1,134,796,784</i> gallons
Distribution System Leakage – Annual Volume TP – AC	<i>177,727,216</i> gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	<i>13.5 %</i>
3-year annual average	<i>15.6 %</i>

Goal-Setting Information:

Date of Most Recent Public Forum: *09/21/2016* Has goal been changed since last performance report? *No*

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

WUE Goals:

Customer Goal (Demand Side):

Reduce seasonal outdoor water use by an additional 2 to 3% by December 31, 2018.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

The City of Wenatchee implemented the following measures in 2017: 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, on the city website (www.wenatcheewa.gov/water_wise), and in the consumer confidence report (CCR). Water use efficiency literature was also available at city facilities.

Since 2010, the focus of the water use efficiency education and outreach program has been on efficient summer water use for single family residential customers. While working on the update to the water system plan in 2017, the city's consultant used current census data to re-evaluate the number of people per single family dwelling unit. In the past, the City had used the value of 2.53 people per single family dwelling unit. Based on the analysis of the census data, the City of Wenatchee has approximately 3.6 people per single family dwelling unit. The summer water usage for single family residences was re-calculated for 2010 through 2016 so that the change in people per dwelling unit would not skew the comparison with the 2017 summer water usage. The re-calculated average summer water use from 2010 through 2015 was 208 gpcd (gallons per capita per day). The average summer water usage for 2016 and 2017 was 196 gpcd for an average savings of 12 gpcd during the period of June through August with an estimated water savings of about 10 million gallons for the summer. Based on the data collected from 2010 through 2017, the City is on track to meet the goal of reducing seasonal water use by 2 to 3% by the end of 2018.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

The City of Wenatchee's supply side goal was to reduce distribution system leakage to 10% or less. The distribution system leakage was 13.5% in 2017. An inspection of all of the City's reservoirs was completed in 2017. City staff also continued to track non-emergency fire hydrant usage and implement leak detection efforts.

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