



Date Submitted: 1/28/2020

Water Use Efficiency Annual Performance Report - 2019

WS Name: YAKIMA WATER DIVISION CITY OF

Water System ID# : 99150

WS County: YAKIMA

Report submitted by: *David Brown*

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: 01/01/2019 To 12/31/2019

Incomplete or missing data for the year? No

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	3,593,400,000 gallons
Authorized Consumption (AC) – Annual Volume	3,200,900,000 gallons
Distribution System Leakage – Annual Volume TP – AC	392,500,000 gallons
Distribution System Leakage – Percent DSL = [(TP – AC) / TP] x 100	10.9 %
3-year annual average	18.3 %

Goal-Setting Information:

Date of Most Recent Public Forum: 07/11/2017 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):

Maintain the current residential per capita use of 74.9 through January 1, 2019(average water use per person per day). As this is a very low per person use no additional water savings is expected. The city has a separate irrigation supply so reducing this very low per capita rate will be very difficult. Reduce DSL to less than 10% by January 2019.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Maintain the current residential per capita use of 74.9 through December 31, 2020. This is a very low per person use no additional water savings is expected. The city has a separate irrigation supply so reducing this very low per capita rate will be very difficult. Conservation Rate Structures are already in place. A Rate Study was completed 2017 as part of the 2017 Water System Plan Update where additional conservation rates were analyzed. Utility bill shows consumption history for both Residential and Industrial/Commercial customers. Customers have access to their billing records including water use through an internet portal. Education measures identified in the 2017 Water System Plan update are ongoing. The current residential per capita use in the 2017 Water System Plan the average per capita use was 74.9 gallons per capita per day. The 2017 per capita use has remained approximately the same. The per person use is very low and we have determined further reduction is per person use is not financially feasible at this time. The per person use will be analyzed again in the 2027 Water System Plan Update. Automated meter reading system is installed, which replaced all meters. This automated system will allow water use, consumption and DSL to be calculated every week. We have been conducting audits to determine proper meter size and replacing meters with smaller appropriate sized meters. We have an intensive meter calibration program for all meters over 1 1/2 inch. Public education has resulted in lower total use. The goal to reduce DSL to 10% or less by January 2017 was not achieved at 10.9% this year. Reservoirs will be inspected for leaks in 2020.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

Leak detection surveys are conducted every few years. In 2017, some 35 leaks were found and eliminated. Leak detection of reservoirs will begin in the summer of 2020. Additional steps implemented to reduce DSL include: Two metered fill stations for use by street sweepers and for other city uses has been installed and several more are in planning, this will allow more accurate tracking of water use. Implemented a program to more accurately account for water used for other uses such as firefighting and training, has not proven to be successful. The City has adopted the latest Uniform Building Codes which mandate low use plumbing fixtures.

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