



Date Submitted: 6/24/2022

Water Use Efficiency Annual Performance Report - 2021

WS Name: WHITE SALMON CITY OF

Water System ID# : 96350 WS County: KLICKITAT

Report submitted by: Russ Avery

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	325,716,537 gallons
Authorized Consumption (AC) – Annual Volume in gallons	241,930,763 gallons
Distribution System Leakage – Annual Volume TP – AC	83,785,774 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	25.7 %
3-year annual average - %	30.0 % 2019, 2020, 2021

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 05/18/2022

Has goal been changed since last performance report? Yes

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

Customer WUE Goal (Demand Side):

Two percent reduction in average gallons per equivalent residential unit (ERU) day that can be observed in the ADD goal values in the year 2028 (demand side goal). An ERU is defined as the average amount of water used by a resident. For the City of White Salmon's water system, an ERU was defined as 73,864 gallons per year per ERU or 208.4 gallons per day (gpd) per ERU.

Customer (Demand Side) Goal Progress:

Public outreach at local community events, informational pamphlets at City Hall, website for public view and direct interaction with customers by Public Work Staff.
The use of low no lead in all parts and materials used in our water system as per guidelines.
Finished replacing all 1" and below water meters with new AMI meters.
WUE informational packet given to new customers.

Additional Information Regarding Supply and Demand Side WUE Efforts

The city has selected a new vender for the water meters that we use in the distribution system. The new system utilizes Radio Frequency technology for downloading individual meter reads to a laptop device. With this approach we have started changing out all meters larger than 2" with an Octave meter. This change will increase the accuracy of our meter reads. We are also replacing all residential meters that have been in service over 15 years. This will increase our ability to more accurately account for our water, as well as increasing the speed with which we can read them and respond to any issues.

All targeted meters 1" and below have been replaced. Once the new network is setup. The new system will allow office staff to receive "real time" alerts and data on many of the issues that typically require a customer service call.

Water main improvement project phase 1 is scheduled to start in 2022. This will replace aging water mains that are critical to suppling water to customers. Phase 2 is scheduled to go out to bid in 2023 this will continue with replacing aging water mains. These projects will also move the water mains out so that they are more accessible to maintain and repair.

Staff is constantly on the lookout for any leaks that may be occurring in the system. Our long term goals are to replace aging infrastructure with new and adequately sized pipes to meet the demands and needs of our customers well into the future.

DSL of 25 percent or less in the Year 2028. (Supply side goal)

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 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