Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Date Submitted: 6/9/2022

Water Use Efficiency
Annual Performance Report - 2021

WS Name: LAZY C

Water System ID# : 02676 WS County: JEFFERSON

Report submitted by: *William Graham*

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	*4,192,100*	gallons	
Authorized Consumption (AC) – Annual Volume in gallons	*4,042,307*	gallons	
Distribution System Leakage – Annual Volume TP – AC	*149,793*	gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	*3.6 %*		
3-year annual average - %	*2.5 %*		*2019, 2020, 2021*

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: *09/23/2020*

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):

The one Demand Side Goals established, and approved by the BOC, in the 2020-2025 Water Use Efficiency Program is: 1. Maintain gallons per day per connection at 3-year mean average.

Customer (Demand Side) Goal Progress:

The Demand Side Goal approved by the PUD Board of Commissioners (BOC) in the 2020-2025 Water
Use Efficiency Program is:
1. Maintain gallons per day per connection at 3-year (2017 – 2019) mean average of 84 gpd. Goals were based on single family home use.

The 2021, customer average consumption of 100 gals/day was above the 3-year average usage goal of 84 gallons per day per connection.

Lazy C's low 3-year average use per day is in part due to small lot sizes and minimal landscaping requirements. Despite these factors, the increase in Lazy C customer water usage was likely in part due to the historic early summer heatwave, the impacts of which were drawn out over the course of the summer with heat-stressed or heat-killed landscapes and gardens. Due to the unusual nature of the heatwave, we expect and encourage Lazy C customers to resume normal water consumption patterns in 2022.

Additional Information Regarding Supply and Demand Side WUE Efforts

The 4-tier water conservation rate structure remains in place as an incentive for customers to conserve water. Billing statements graph annual usage by month allowing the customer to track and compare monthly usage.

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.

Three Supply Side Goals were established by the BOC, in the 2020-2025 Water Use Efficiency Program. They are:
1. Supply Side - Maintain distribution systems leak (DSL) percentage at or below 10-percent of system production as calculated on a 3-year average.
2. Supply Side - Water systems not at or below DSL of 10-percent, reduce DSL by 10-percent in the next 3-years (Note: Baseline 3-year average from 2019, 2018 & 2017)
3. Supply Side - Maintain water production at or below the 3-year mean average (3,451,133 gallons).

The Lazy C water system very rarely has substantial distribution system leakage (DSL). In 2021, it was no different. The Lazy C system DSL was 3.6%, well below the state standard of 10% or less. Similarly, the system easily met the second goal being 3.6% DSL. Regarding the third goal, however, production in order to keep up with the increase in customer demand produced 741,000 gallons more than the 3-year mean average 3,451,133 gallons. Assuming a normal summer in 2022, production should return to normal volumes.

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	04/02/2021	162.6	
May	05/07/2021	161.9	
June	06/04/2021	162.0	
July	07/02/2021	163.4	
August	08/06/2021	164.6	
September	09/03/2021	164.6	
October	10/01/2021	163.8	
November	11/05/2021	161.8	
December	12/03/2021	162.8	

Water level data:

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

Well tag Id number:	ABP 807
Well depth:	485.0
Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)	~ 1ft
Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc…)	case open ended,,sawcut perforations
Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)	47.704, -122.919 (~10 ft)
Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)	Depth below measuring point
Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)	223

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	280,300
February	239,000
March	287,000
April	283,000
May	411,500
June	465,700
July	549,900
August	544,100
September	301,100
October	286,600
November	290,200
December	252,500

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

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