



Date Submitted: 6/14/2023

Water Use Efficiency Annual Performance Report - 2022

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 02/07/2022 To 01/06/2023

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	3,671,500 gallons
Authorized Consumption (AC) – Annual Volume in gallons	3,651,566 gallons
Distribution System Leakage – Annual Volume TP – AC	19,934 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	0.5 %
3-year annual average - %	2.0 % 2020, 2021, 2022

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 Demand/Customer Side Goal established and approved by the PPUD BOC in the 2020-2025 Water Use Efficiency Program is: 1. Maintain 84 gallons per day per connection, the 3-year mean average (2017 - 2019).

Customer (Demand Side) Goal Progress:

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. Customers receive an annual water newsletter that includes links to the PUD's website and conservation tips for indoor and outdoor water usage.

Usage at Lazy C per customer per day in 2022 was 93 gals per day, 9 gals over the goal, but 7 gals less than in 2021. Lazy C customer water usage was high in 2021 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. Dryness has persisted since the 2021 "heat dome" which may have kept use numbers higher in 2022 to protect/restore landscapes. Another possible reason for higher than the goal level usage is a longer annual period of occupancy for some residents living full-time in the Lazy C community.

Lazy C customers did save 390,741 gals relative to usage in 2021, but were below the target goal per customer.

Per customer usage is trending downward toward the 84 gal per day target. Several normal precipitation and temperature years will help get usage numbers that are more typical and hopefully can reach the goal target.

Additional Information Regarding Supply and Demand Side WUE Efforts

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).*

PUD water crew takes great pride in keeping DSL low by addressing system leaks and hardware issues as soon as possible and will continue to do so in the future.

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 Lazy C water system very rarely has substantial distribution system leakage (DSL). In 2022, the result was no different. The annual Lazy C system DSL was 0.5 % and the regulatory 3 year average was 2.0%, well below the state standard of 10%.

Similarly, the system easily met the second goal. Regarding the third goal, however, production was about 220,000 higher than the 3 year average supply goal of 3,451,133 gallons. This goal may need to be re-evaluated to match the context of having very low leakage volumes and very efficient customers.

Efficiency measures have largely been limited to controlling systems leaks and maintenance of infrastructure. Customer measures were discussed earlier.

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	01/03/2022		280.4
February	02/07/2022	160.8	
March	03/07/2022	162.2	
April	04/04/2022	162.5	
May	05/09/2022	162.6	
June	06/06/2022	162.6	
July	07/11/2022	161.4	
August	08/01/2022	153.6	
September	09/12/2022	162.8	
October	10/03/2022	162.2	
November	11/07/2022	162.2	
December	12/05/2022		262.4

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) 1 ft

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...) cased, open-ended with 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	892,022
February	398,841
March	206,503
April	238,412
May	233,404
June	239,668
July	417,383
August	411,684
September	396,181
October	367,358
November	245,593
December	258,728

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