



Date Submitted: 3/27/2023

Water Use Efficiency Annual Performance Report - 2022

WS Name: KING COUNTY WATER DISTRICT #20
Water System ID# : 38950 WS County: KING
Report submitted by: *Michael Martin*

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 01/01/2022 To 12/31/2022
Incomplete or missing data for the year? No
If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	980,781,340 gallons
Authorized Consumption (AC) – Annual Volume in gallons	867,542,368 gallons
Distribution System Leakage – Annual Volume TP – AC	113,238,972 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	11.5 %
3-year annual average - %	6.6 % 2020, 2021, 2022

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 06/19/2019
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):

WD20 adopted the Saving Water Partnership Regional Conservation Water Use Efficiency Goal in 2019 for the years 2019-2028: The Goal is to keep the total average annual retail water use of SWP members under 110 mgd through 2028, despite forecasted population growth, by reducing per capita use. WD20 is one of a group of 19 utilities that purchase wholesale water from Seattle Public Utilities and is part of the Saving Water Partnership Regional Water Conservation Program administered by SPU. WD20 has set a distribution system leakage threshold at less than 10% annual water loss. The goal is achieved through the annual Capital Improvement Program to replace aging water main and the annual meter replacement program. Ratepayers are notified if meter readings indicate excessive usage and possible leaks.

Customer (Demand Side) Goal Progress:

Additional Information Regarding Supply and Demand Side WUE Efforts

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