

Water Use Efficiency Annual Performance Report - 2020

WS Name: MOUNT BAKER WATER ASSOCIATION

Water System ID# : 56500 WS County: WHATCOM

Report submitted by: ROBERT HAUGHT

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 01/01/2020 To 12/30/2020

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons 21,586,790 gallons

Authorized Consumption (AC) – Annual Volume in gallons 18,588,650 gallons

Distribution System Leakage – Annual Volume TP – AC 2,998,140 gallons

Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$ 13.9 %

3-year annual average - % 18.2 % 2018, 2019, 2020

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 02/20/2019

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):

Reduce customer consumption

Customer (Demand Side) Goal Progress:

We continue to maintain water conservation projects. We no longer have any farms on our system.

We are maintaining our consumption rate as our customer base is younger containing more kids

Additional Information Regarding Supply and Demand Side WUE Efforts

Continue to monitor for leaks, reducing our leakage to 10%

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.

We have continued to lower leakage rates annually, but we also have large leaks that materialize, especially during winter wet months that do not surface, causing longer times to locate. We are looking at purchasing new readable meters with leak detection

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	01/08/2020	10.0	
February	02/04/2020	10.8	
March	03/10/2020		13.5
April			
May	05/22/2020		13.4
June	06/17/2020		12.8
July	07/28/2020		14.0
August			
September	09/15/2020		15.5
October			
November			
December	12/30/2020		13.1

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: 61.0

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft) ~.5ft

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) 48.50.28 122.17.39

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface) below top of well casing

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7) 162.6 ft

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 65,000

Month	Volume of Water Produced in gallons
January	1,450,575
February	1,235,475
March	1,413,075
April	1,537,059
May	1,651,500
June	1,680,750
July	2,559,150
August	2,566,275
September	2,599,125
October	2,857,575
November	2,168,550
December	2,287,500

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

Do not mail, fax, or email this report to DOH