



Date Submitted: 6/28/2017

Water Use Efficiency Annual Performance Report - 2016

WS Name: QUILCENE

Water System ID# : AB292

WS County: JEFFERSON

Report submitted by: *William Graham*

Meter Installation Information:

Estimate the percentage of metered connections: 100%

If not fully metered - Current status of meter installation:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 12/15/2015 To 12/15/2016

Incomplete or missing data for the year? Yes

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	2,336,330 gallons
Authorized Consumption (AC) – Annual Volume	2,089,290 gallons
Distribution System Leakage – Annual Volume TP – AC	247,040 gallons
Distribution System Leakage – Percent DSL = [(TP – AC) / TP] x 100	10.6 %
3-year annual average	12.6 %

Goal-Setting Information:

Date of Most Recent Public Forum: 12/15/2010 Has goal been changed since last performance report? No

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

WUE Goals:

Customer Goal (Demand Side):

Reduce residential customer demand by 2% over 6 year planning period (2011 - 2017). Reduce state and local governmental demand by 2% over planning period (2011 - 2017).

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Quilcene customers collectively saved about 17,000 gallons in 2016 compared to 2015, but as a system is using more than its 2011 customer goal baseline. This in part is because Quilcene has expanded to its full capacity in that time. Over the course of planning period measures available to Quilcene customers included conservation kits and low flow showerhead giveaways at office and fairs, conservation education billing inserts, web pages and tiered conservation water rates. In the last two years, rebates have been available for clothes washers and showerheads. Of these measures, the tiered rates and graphics showing usage, have been active consistently over the entire rate period while others have been intermittently deployed, most often during drought. Water conservation goals for Quilcene will be re-evaluated when the PUD updates its water system plan in 2018.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

Quilcene leakage has been over the 10% threshold frequently over the last few years, but now is starting to come down. We forecast that based on the information we have now, the reporting year of 2017 will show additional improvement. One change of note: the Quilcene Fire District is regularly reporting hydrant usage to us on a monthly basis. Other possible remaining causes of "leakage" are unmetered usage by the USFS, the former owners of the system, have acknowledged that not all their usage is accounted for. Also, the system is potentially susceptible to theft through hydrants. Although there is a metered hose bib at the County Park, its flow rate is very low. Its not uncommon to see trucks with tanks getting "free water" at the park - and one waiting behind it - so demand for trucked water and the potential for unmetered use seems high. Crews in general are diligent about finding and fixing leaks in general and take pride in keeping our systems tight. Improved relations with the fire district and the USFS have had noticeable impact on water savings in Quilcene. Quilcene, like all other Jefferson PUD water systems, will have its water conservation goals re-evaluated in 2018 in conjunction with the update of its water system plan.

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