

Water Use Efficiency Annual Performance Report - 2016

WS Name: YAK CO - TERRACE HEIGHTS

Water System ID# : 06029

WS County: YAKIMA

Report submitted by: *Bill Trout*

Meter Installation Information:

Estimate the percentage of metered connections: *More Than 75%*

If not fully metered - Current status of meter installation:

All services are metered with the exception of a service to our well # 4 pump house.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 01/01/2016 To 12/31/2016

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	305,571,001 gallons
Authorized Consumption (AC) – Annual Volume	274,572,078 gallons
Distribution System Leakage – Annual Volume TP – AC	30,998,923 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	10.1 %
3-year annual average	15.1 %

Goal-Setting Information:

Date of Most Recent Public Forum: 12/22/2009 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 average day and peak month demands per single-family residence by 3 percent based on the average of the demands over the next 6-year planning period (2009-2014) as compared to the average over the previous 6-year planning period (2003–2008)

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

1. WUE measures currently being implemented include billing customers on an inclining block rate structure, notifying customers when an unusually high bill is discovered or when the meter indicates a leak, and providing water conservation tips in bills.
2. Demands were 6.1% less in 2016 compared to 2015.
3. 2015 to 2016 single family residential average day demand is 14. % less (360 gpd versus 419 gpd) 2015 to 2016 single family residential peak month demand is 9.1% less (809 gpd versus 890 gpd).

Additional Information Regarding Supply and Demand Side WUE Efforts

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

There was an increase in system leakage from 2015 to 2016. System leakage was 10.1% in 2016 9% in 2015, 26 % in 2014, 19 % in 2013, and 17% in 2012,

No new supply side WUE measures were implemented in 2016. We have checked supply meters for accuracy and leak testing.

Demand Side Goal Progress:

Yakima County has installed new meters with an automated meter reading system in 2014. Our AMRs have leak detection capability that flags the reading and lets us know there is a leak. By replacing all meters we will be sure to have accurate meters due to the lack of wear. Most importantly, now that all meters are converted we have the capability to accurately read water consumption system-wide in less than one day, so we can accurately correlate our consumption data to our pumping data. Discrepancies will be more visible, and discovery of leaks will occur sooner.

Additional Information Regarding Supply and Demand side WUE Efforts

A leak survey was completed in 2008 in the older part of the system that identified five small leaks.

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