

Water Use Efficiency Annual Performance Report - 2016

WS Name: YAK CO - GALA ESTATES WATER

Water System ID# : 23280

WS County: YAKIMA

Report submitted by: Bill Trout

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: 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	3,114,690 gallons
Authorized Consumption (AC) – Annual Volume	2,095,986 gallons
Distribution System Leakage – Annual Volume TP – AC	1,018,704 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	32.7 %
3-year annual average	26.5 %

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 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 leak detector indicates a leak, and providing water conservation tips in the CCR's.
2. There was a 13% decrease in demands from 2015 to 2016. For an estimated savings of 310,700 gallons.
3. System leakage was 32.7 in 2016, 21.3 % in 2015, 25.3 % in 2014, 21.9 % in 2013, 20% in 2012, 15% in 2011, 16% in 2010, 14% in 2009, 14%

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 a 1.7% increase in supply side production from 2015 to 2016.

The source meter was recently tested for accuracy and was found to be over registering by 27.3%.

We will be repairing or replacing the source meter in 2017. After the source meter has been repaired/replaced we are expecting the unaccounted for water to be under 10%.

System leakage was 32.7 in 2016, 21.3 % in 2015, 25.3 % in 2014, 21.9 % in 2013, 20% in 2012, 15% in 2011, 16% in 2010, 14% in 2009, 14%

Demand Side Goal Progress:

Yakima County will be installing new meters with an automated meter reading system in 2017. Our AMRs will have a 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, once all meters are converted we will 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.

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