

Water Use Efficiency Annual Performance Report - 2014

WS Name: YAK CO - TERRACE HEIGHTS

Water System ID# : 06029

WS County: YAKIMA

Report submitted by: Joe Stump

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: 01/01/2014 To 12/31/2014

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	326,032,290 gallons
Authorized Consumption (AC) – Annual Volume	241,298,940 gallons
Distribution System Leakage – Annual Volume TP – AC	84,733,350 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	26.0 %
3-year annual average	20.8 %

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 leak detector indicates a leak, and providing water conservation tips in bills.
2. No measurable water savings were realized in 2014. Well production the last six years averaged 0.1 million gallons per year more than the average for the previous six years (2003-2008). Total consumption for all customer classes the last six years averaged 1.5 million gallons per year less than the average for the previous six years.
3. Single family residential average day demand is 0.2 % greater (393 gpd versus 392 gpd) in the last six years compared to the previous six years (2003-2008). Single family residential peak month demand is 11.5% less (733 gpd versus 829 gpd) in the last six years compared to the previous six years.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

Supply side goal progress:

There was an increase in system leakage from 2013 to 2014. System leakage was 26 % in 2014 19 % in 2013 17% in 2012, 25% in 2011, 26% in 2010, 21.7% in 2009, 20% in 2008, 20% in 2007.

No new supply side WUE measures were implemented in 2012. 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.

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