

Water Use Efficiency Annual Performance Report - 2015

WS Name: YAK CO - BUENA WATER SYSTEM

Water System ID# : 34301

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: *01/01/2015* To *12/31/2015*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	32,868,200 gallons
Authorized Consumption (AC) – Annual Volume	31,155,756 gallons
Distribution System Leakage – Annual Volume TP – AC	1,712,444 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	5.2 %
3-year annual average	7.9 %

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:

WUE measures currently being implemented include billing customers on an consumption based 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 2015. Well production the last five years averaged 1.8 million gallons per year more than for the previous six years (2005-2010). Total consumption for all customer classes the last four years averaged 1.4 million gallons per year more than for the previous six years. This is partially due to an increase in the number of customers. 3. Single family residential average day demand is 5.1% more (386 gpd versus 365 gpd) in the last five years compared to the previous six years (2005-2010). Single family residential peak month demand is 0.6% more (667 gpd versus 663 gpd) in the last four 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:

We are right at our goal of maintaining distribution leakage to less than 10% based on a four year rolling average. Average unaccounted for water for 2012 through 2015 was 8.5 %. This is lower than the average for 2008 through 2011 of 9.3% No new supply side WUE measures were implemented last year. 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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