

## Water Use Efficiency Annual Performance Report - 2016

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: *01/01/2016* 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                   | 30,768,800 gallons |
| Authorized Consumption (AC) – Annual Volume                               | 29,910,575 gallons |
| Distribution System Leakage – Annual Volume TP – AC                       | 858,225 gallons    |
| Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$ | 2.8 %              |
| 3-year annual average   | 5.1 %              |

### 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 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. There was a 4. % decrease in system demands from 2015 and 2016.
3. There was a 5.3 % decrease in residential demands from 2015 and 2016
4. There was a 6.5 % decrease in system peak month demand from 2015 and 2016
5. There was a 13.9 % decrease in residential peak month demand from 2015 and 2016

#### **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 three year rolling average. Average unaccounted for water for 2014 through 2016 was 6.6 %. This is lower than the average for 2011 through 2013 of 11.3%*

*No new supply side WUE measures were implemented last year.*

*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.*

**Do not mail, fax, or email this report to DOH**