



Date Submitted: 7/12/2012

Water Use Efficiency Annual Performance Report - 2011

WS Name: CHELAN CO PUD 1

Water System ID# : 12284

WS County: CHELAN

Report submitted by: Ron Slabaugh

Meter Installation Information:

Estimate the percentage of metered connections: 100%

If not fully metered - Current status of meter installation:

x

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 01/01/2011 To 12/31/2011

Incomplete or missing data for the year? No

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	777,775,000 gallons
Authorized Consumption (AC) – Annual Volume	649,103,000 gallons
Distribution System Leakage – Annual Volume TP – AC	128,672,000 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	16.5 %
3-year annual average	15.9 %

Goal-Setting Information:

Date of Most Recent Public Forum: 07/09/2007 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 third-tier water consumption per equivalent residential unit (ERU) by 5 percent by the end of the six-year planning period (2013)

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Third tier residential consumption has reduced 39.9% , or approximately 11,000 gallons per customer per year since the baseline year(2006). WUE measures include conservation rates, customer leak detection and notification, customer water meter monitoring, customer water meter data recording and reporting, Xeriscaping program, and a comprehensive website.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

We established a goal to reduce distribution system leakage from 15.2 percent (2006) to less than 12.5 percent by 2013. We completed a system-wide installation of new water meters in 2007. We had hoped reported distribution system leakage would be reduced significantly following this project. However, reported leakage over the years has remained basically unchanged. We began leak detection efforts in one pressure zone using listening equipment, but found no significant leaks. However, we have repaired several significant leaks, that rose to the ground surface, that are typical for a water system this size and age. We recently completed installing several meters within our distribution system that will allow us to compartmentalize and evaluate leakage in smaller areas. We plan to evaluate data prior to reporting in 2013, to determine if some areas are leaking worse than others, or if the leakage is fairly consistent over the entire system.

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