



Date Submitted: 6/29/2011

Water Use Efficiency Annual Performance Report - 2010

WS Name: KELSO, CITY OF

Water System ID# : 38000

WS County: COWLITZ

Report submitted by: Paul Reeb

Meter Installation Information:

Is your water system fully metered? Yes

If not fully metered - Current status of meter installation:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 01/01/2010 To 12/31/2010

Incomplete or missing data for the year? No

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	809,800,000 gallons
Authorized Consumption (AC) – Annual Volume	708,540,000 gallons
Distribution System Leakage – Annual Volume TP – AC	101,260,000 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	12.5 %
3-year annual average	11.2 %

Goal-Setting Information:

Date of Most Recent Public Forum: 01/15/2008 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):

Current Goals are listed in our 2005 comprehensive water plan where applicable along with our WUE program as adopted thru the public process. Reduce ADD and MDD by 3 percent over the next 6 years. Promote conservation program by distributing brochures during peak usage months. Meter and record upper zone pump station usage. Establish true ADD and MDD within the zone. Continue leak detection program and meter replacement program. Conduct a biannual system leak detection survey. Allocate \$100,000 per year to replace old 2, 4, 6 and eight inch water lines of any material (mainly AC, Cast Iron, and Galvanized steel).

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Additional measures that will remain or be funded to meet water conservation goals: 1) Water bill showing consumption history for residential. 2) Water bill showing consumption history for industrial. 3) CCR w/WUE education for residential. 4) Meter all inerties. 5) Post water saving tips on web site. 6) Utilize seasonal rates.

2005 ADD was 2.340 MGD and in 2010 ADD was 2.218 MGD, this is a 5.2% reduction and amounts to a reduction of 122,000 gallons per day.

2005 MDD was 3.70 MGD and in 2010 MDD was 3.59 MGD, this is about a 2.97% reduction just shy of our 3% goal.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

Kelso has implemented a water loss control action plan as outlined in our "Water Use Efficiency Program".

In 2010 Kelso was aggressive in water line replacement taking advantage of lower interest rates and grant money to complete more than \$700,000 in water line projects.

In 2011 within this continued atmosphere of lower contractor services, Kelso has accelerated water projects that include \$3,000,000 for water line & associated upgrades along with \$3,500,000 for a new reservoir.

Meter replacement was ramped up in 2010 to provide better data on water being sold to our customers; this program is being accelerated in 2011. Old meters under-read, new meters will better insure that all of our customers are paying for the water that they use, and will allow Kelso to more closely calculate water losses.

This big investment in our water infrastructure now, while project costs are down, will result in future cost savings to our customers. The water lines being replaced will reduce water loss due to fewer water breaks along with reducing the costs associated with repairs. Other big advantages to improving our water supply infrastructure are improved fire protection and being in a better position to handle future growth, which can bring much needed jobs to our community.

Also on the supply side in mid 2010, improvements were made to the water plant filtration process, extending filter runs, thus saving about 1 million gallons of treated water per month.

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