



Date Submitted: 5/21/2019

Water Use Efficiency Annual Performance Report - 2018

WS Name: WASHINGTON STATE UNIVERSITY

Water System ID# : 93200

WS County: WHITMAN

Report submitted by: Jeff Lannigan

Meter Installation Information:

Estimate the percentage of metered connections: 50% to 75%

If not fully metered - Current status of meter installation:

WSU installed an additional 35 water meters in 2018, and has started projects to install 175 meters on the remaining large unmetered facilities and all remaining Housing facilities. This work will be completed in the 2019-2021 fiscal cycle.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 01/01/2018 To 12/31/2018

Incomplete or missing data for the year? Yes

If yes, explain:

Water use is not fully metered, therefore Authorized Consumption is estimated using a comparable water use intensity analysis.

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	452,482,000 gallons
Authorized Consumption (AC) – Annual Volume	417,231,000 gallons
Distribution System Leakage – Annual Volume TP – AC	35,251,000 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	7.8 %
3-year annual average	2.6 %

Goal-Setting Information:

Date of Most Recent Public Forum: 06/22/2015 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):

Other goals are to limit annual aquifer pumping increases to 1% of the pumping volume based on a 5 year moving average starting with 1986 (642 mgd). At no time shall the accumulated total pumping exceed 125% of the 1981 to 1985 average (702 – 877mgd), to improve irrigation systems to automatic systems (70-90% in ten years) and to eliminate 20 gpm of cooling water to the drain in 3 years.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

For the reporting period listed above, WSU total water produced was 452 million gallons, a decrease of 47 million gallons from last year. Irrigation systems are fully automatic and centrally controlled to maximize efficiency, and single-pass domestic water cooling has been eliminated wherever possible.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

A significant effort was made in 2018 to identify water meter priorities to assure WSU's limited resources are spent to maximize the associated benefit in quantifying water use. Although around 50% of the total number of connections are currently metered, this represents 80% of square footage on campus; implementing the meter projects identified above in the coming two years will bring this number by area to nearly 100%. A water conservation task force has been established within WSU Facilities Services to continually identify, troubleshoot, and correct areas of high water use. WSU also continues to be an active participant in commissioning and funding studies of water resource issues through its involvement in the Palouse Basin Aquifer Committee (PBAC).

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