



Date Submitted: 6/1/2018

## Water Use Efficiency Annual Performance Report - 2017

WS Name: WASHINGTON STATE UNIVERSITY      Water System ID# : 93200      WS County: WHITMAN

Report submitted by: Steven Potratz

### Meter Installation Information:

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

If not fully metered - Current status of meter installation:

*Despite a slow start due to funding delays, meter installations continue to progress as funding has become available, WSU campus is expected to be 100% metered by the end of the funding year which ends July 1, 2019. WSU Housing has 135 meters yet to install and is expected to finish this work in the following budget cycle.*

### Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 12/31/2016 To 01/01/2018

Incomplete or missing data for the year? Yes

If yes, explain:

*Water use is not fully metered at this time; therefore, "Authorized Consumption" is not inclusive of all water consumed.*

### Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	499,602 gallons
Authorized Consumption (AC) – Annual Volume	499,602 gallons
Distribution System Leakage – Annual Volume TP – AC	gallons
Distribution System Leakage – Percent DSL = [(TP – AC) / TP] x 100	0.0 %
3-year annual average	%

### 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 mgy). At no time shall the accumulated total pumping exceed 125% of the 1981 to 1985 average (702 – 877mgy), 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:

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.

#### **Additional Information Regarding Supply and Demand Side WUE Efforts**

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

*For the reporting period listed above, WSU total water produced was 499 million gallons which is 63 million gallons greater than last year. WSU has made significant efforts to meet the water conservation goals. WSU plans to continue the implementation of the demand side water service meters. In addition to the 45 cited last year an additional 20 were installed in 2017. The final 47 will be installed this coming year. Housing is continuing its efforts to install water meters as well having completed the installations at campus dormitories. They are continuing to install meters at married student housing facilities. We continue to see the positive effects of a sophisticated grounds irrigation system which has been updated this last year. Water meters continue to be installed in conjunction with construction projects as they occur. Other water conservation programs have been implemented including ongoing development of reverse osmosis systems used to reduce water consumption in cooling towers at the central chilling plant. The approximate savings was 16 million gallons in the 2017 cooling season. This process has now been proven successful and is being considered for other facilities on campus. Housing has upgraded all shower facilities with low flow fixtures.*

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